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# 精工光储，智驭绿能

PRECISION-ENGINEERED SOLAR & STORAGE · SMART GREEN ENERGY CONTROL

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# 奥晟迪智能家储

AUSEND SMART HOME ENERGY STORAGE



# 精工光储，智驭绿能

PRECISION-ENGINEERED SOLAR & STORAGE · SMART GREEN ENERGY CONTROL

2026 产品目录 / PRODUCT CATALOGUE

光伏 · 储能 · 家庭能源管理

PHOTOVOLTAICS · STORAGE · HOME ENERGY MANAGEMENT



# 公司简介

## ABOUT US

潍坊奥晟迪新能源科技有限公司专注于光伏发电、储能与能源应用产品，旗下品牌奥晟迪（AUSEND）面向家庭、工商业、离网和移动用电场景，构建了涵盖逆变器、磷酸铁锂电池、家庭及工商业储能系统、光伏组件、光伏车棚和便携式储能电源的产品组合。公司以可靠品质、系统适配和清晰交付为核心，从设备选型、容量配置到应用方案协同，帮助客户更高效地建设和管理光储系统。

WEIFANG AUSEND NEW ENERGY TECHNOLOGY CO., LTD. focuses on photovoltaic, energy-storage and energy-application products under the AUSEND brand. Serving residential, commercial, off-grid and mobile-power scenarios, we provide an integrated portfolio of inverters, LFP batteries, storage systems, solar modules, photovoltaic carports and portable power products, with support from product selection and capacity matching to application planning.

### 使命 / MISSION

以可靠的光储产品，让清洁能源更易获取、更易管理、更安心使用。

Make clean energy easier to access, manage and use with confidence through reliable solar and storage products.

### 愿景 / VISION

成为值得客户长期信赖的光储产品与能源应用伙伴，让清洁能源服务更多实际场景。

Become a long-term trusted solar-storage partner and bring clean energy to more practical applications.

### 发展成果 / ACHIEVEMENTS

已形成六大产品板块，覆盖家庭备电、光伏自用、工商业储能、光伏车棚和移动供电等应用需求。

Six product sectors now support home backup, solar self-use, commercial storage, PV carports and mobile power.

### 价值理念 / VALUES

精工品质 / 务实创新 / 清晰交付 / 长期协作

Precision quality / Practical innovation / Clear delivery / Long-term collaboration

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# 太阳照常升起 能源持续在线

THE SUN RISES AS USUAL  
ENERGY STAYS ONLINE

发得清洁，存得安心，用得从容

GENERATE CLEAN. STORE WITH CONFIDENCE. USE WITH EASE.

从屋顶光伏到家庭储能，奥晟迪连接发电、储存与每一次可靠用电。

From rooftop solar to home energy storage, AUSEND connects generation, storage and reliable power for everyday life.

# 裂相美规混合逆变器

SPLIT-PHASE HYBRID INVERTER

AUSEND-IP21-1SSP-LP

面向北美住宅 120/240V 裂相电网，连接光伏、储能电池、市电与家庭负载。



## 北美 120/240V 裂相系统

North American split phase

## 家庭备电与负载管理

Home backup and load control

## 10kW / 12kW 功率平台

10kW and 12kW options

## 多重电气保护

Multiple electrical protections

## 光伏与市电双充电

PV and utility charging

## 储能系统集成

Battery energy integration

# 详细技术参数

AUSEND-IP21-1SSP-LP

DETAILED TECHNICAL SPECIFICATIONS

裂相美规混合逆变器

Split-phase hybrid inverter

| 参数 / PARAMETER                  |                                    | 10 kW    | 12 kW |
|---------------------------------|------------------------------------|----------|-------|
| 交流输入与输出 / AC INPUT & OUTPUT     |                                    |          |       |
| 额定输入电压<br>Rated input voltage   | 120 V (L1/N, L2/N) / 240 V (L1/L2) |          |       |
| 额定输出电压<br>Rated output voltage  | 120 V (L1/N, L2/N) / 240 V (L1/L2) |          |       |
| 额定功率<br>Rated power             | 10,000 W                           | 12,000 W |       |
| 输出频率<br>Output frequency        | 50 / 60 Hz                         |          |       |
| 光伏与充电 / PV & CHARGING           |                                    |          |       |
| MPPT充电电流<br>MPPT charge current | 200 A                              |          |       |
| 光伏输入电流<br>PV input current      | 22 A x 2                           |          |       |
| MPPT电压范围<br>MPPT voltage range  | 90-450 V                           |          |       |
| 市电充电电流<br>Mains charge current  | 120 A                              | 160 A    |       |
| 应用 / APPLICATION                |                                    |          |       |
| 适用于北美住宅裂相电网、家庭光储、应急备电与关键负载供电。   |                                    |          |       |

# 单相离网逆变器

SINGLE-PHASE OFF-GRID INVERTER

AUSEND-IP21-1SOG-LP

覆盖 24V 与 48V 电池平台，适用于无电网区域、家庭备电、UPS 和小型独立光伏系统。



### 纯正弦波输出

Pure sine wave

### 多功率等级

Multiple power ratings

### MPPT 太阳能充电

MPPT solar charging

### 适配 UPS 与离网场景

UPS and off-grid use

### 24V / 48V 电池平台

24V / 48V battery

### 多款机身可选

Multiple enclosures

## 详细技术参数

AUSEND-IP21-1SOG-LP

DETAILED TECHNICAL SPECIFICATIONS

### 单相离网逆变器

Single-phase off-grid inverter

| 参数 / PARAMETER                                         | 3 kW / 24 V                                                                      | 6 kW / 48 V        | 8 kW / 48 V        | 10 kW / 48 V       |
|--------------------------------------------------------|----------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
| 市电模式 / MAINS MODE                                      |                                                                                  |                    |                    |                    |
| 额定交流输入<br>Rated AC input                               | 230 V AC, 正弦波（市电或发电机） / 230 V AC, sine wave (mains or generator)                 |                    |                    |                    |
| 市电输入范围<br>Mains input range                            | 家用模式 90-280 V AC / UPS 模式 170-280 V AC / 90-280 V AC (home) / 170-280 V AC (UPS) |                    |                    |                    |
| 最大交流输入电压<br>Max. AC input voltage                      | 300 V AC                                                                         |                    |                    |                    |
| 额定输入频率<br>Rated input frequency                        | 50 / 60 Hz, 自动适应 / 50 / 60 Hz, auto-adaptive                                     |                    |                    |                    |
| 最大旁路电流<br>Max. bypass current                          | 断路器 / Circuit breaker                                                            | 40 A               | 50 A               | 50 A               |
| 转换时间<br>Transfer time                                  | UPS 模式 10 ms / 家用模式 20 ms / 10 ms (UPS) / 20 ms (home)                           |                    |                    |                    |
| 逆变模式 / INVERTER MODE                                   |                                                                                  |                    |                    |                    |
| 额定输出功率<br>Rated output power                           | 3 kVA / 3 kW                                                                     | 6 kVA / 6 kW       | 8 kVA / 8 kW       | 10 kVA / 10 kW     |
| 无电池工作与BMS激活<br>Battery-free operation & BMS activation | 不支持 / No                                                                         | 支持 / Included      | 支持 / Included      | 支持 / Included      |
| 输出端口数量<br>Output ports                                 | 1                                                                                | 2                  | 2                  | 2                  |
| 干接点功能<br>Dry contact                                   | 不支持 / No                                                                         | 支持 / Included      | 支持 / Included      | 支持 / Included      |
| 输出波形<br>Output waveform                                | 纯正弦波 / Pure sine wave                                                            |                    |                    |                    |
| 额定输出电压<br>Rated output voltage                         | 220 / 230 / 240 V AC +/-5%                                                       |                    |                    |                    |
| 额定输出频率<br>Rated output frequency                       | 50 / 60 Hz +/-1 Hz                                                               |                    |                    |                    |
| 峰值效率<br>Peak efficiency                                | 94%                                                                              |                    |                    |                    |
| 过载保护<br>Overload protection                            | >150%: 5 s; 110-150%: 10 s                                                       |                    |                    |                    |
| 浪涌能力<br>Surge capability                               | 2 倍额定功率, 持续 5 s / 2 x rated power, 5 s                                           |                    |                    |                    |
| 额定电池电压<br>Rated battery voltage                        | 24 V DC                                                                          | 48 V DC            | 48 V DC            | 48 V DC            |
| 冷启动电压<br>Cold-start voltage                            | 23 V DC                                                                          | 46 V DC            | 46 V DC            | 46 V DC            |
| 电池欠压保护<br>Battery undervoltage protection              | 21 V DC                                                                          | 42 V DC            | 42 V DC            | 42 V DC            |
| 电池过压保护<br>Battery overvoltage protection               | 33 V DC                                                                          | 63 V DC            | 63 V DC            | 63 V DC            |
| 空载损耗<br>No-load loss                                   | <30 W                                                                            | <45 W              | <70 W              | <70 W              |
| 充电与光伏 / CHARGING & PV                                  |                                                                                  |                    |                    |                    |
| 最大交流充电电流<br>Max. AC charge current                     | 80 A                                                                             | 100 A              | 80 A               | 100 A              |
| 最大光伏充电电流<br>Max. PV charge current                     | 80 A                                                                             | 120 A              | 80 A               | 120 A              |
| 最大总充电电流<br>Max. total charge current                   | 80 A                                                                             | 120 A              | 80 A               | 120 A              |
| 充电逻辑<br>Charging logic                                 | 三段式 / 3-step                                                                     |                    |                    |                    |
| 独立MPPT数量<br>Independent MPPT trackers                  | 1                                                                                | 1                  | 2                  | 2                  |
| 最大光伏功率<br>Max. PV power                                | 4,000 W                                                                          | 6,000 W            | 10,000 W           | 10,000 W           |
| MPPT电压范围<br>MPPT voltage range                         | 30-450 V DC                                                                      | 60-450 V DC        | 60-450 V DC        | 60-450 V DC        |
| 最大光伏开路电压<br>Max. PV open-circuit voltage               | 500 V DC                                                                         |                    |                    |                    |
| 通信、环境与结构 / COMMUNICATION, ENVIRONMENT & MECHANICAL     |                                                                                  |                    |                    |                    |
| BMS通信<br>BMS communication                             | RS485                                                                            |                    |                    |                    |
| Wi-Fi与App<br>Wi-Fi & App                               | 可选 RJ45 接口模块 / Optional RJ45 interface module                                    |                    |                    |                    |
| 安全认证<br>Safety certification                           | CE                                                                               |                    |                    |                    |
| 工作温度<br>Operating temperature                          | -10 至 +50 °C / -10 to +50 °C                                                     |                    |                    |                    |
| 储存温度<br>Storage temperature                            | -15 至 +60 °C / -15 to +60 °C                                                     |                    |                    |                    |
| 相对湿度<br>Relative humidity                              | 5-95%, 无凝露 / 5-95%, non-condensing                                               |                    |                    |                    |
| 防护等级<br>Protection rating                              | IP21                                                                             |                    |                    |                    |
| 尺寸<br>Dimensions                                       | 110 x 311 x 367 mm                                                               | 119 x 335 x 440 mm | 152 x 390 x 500 mm | 138 x 390 x 500 mm |
| 净重<br>Net weight                                       | 7.3 kg                                                                           | 10 kg              | 18 kg              | 18 kg              |

### 应用 / APPLICATION

适用于离网住宅、偏远地区、通信与小型商业备电，以及对 UPS 切换有需求的负载。

# IP21 单相并离网混合逆变器

IP21 GRID-TIED AND OFF-GRID HYBRID INVERTER

AUSEND-IP21-1SGAOG-LP

集成并网、离网切换和电池管理，支持多机并联，适合可扩容住宅储能。



### 并网与离网双模式

Grid and off-grid

### 48V 低压电池

48V low-voltage battery

### 10ms 备电切换

10ms transfer

### BMS 通信

BMS communication

### 支持 1-6 台并联

1-6 units parallel

### 单相住宅储能

Single-phase home ESS

# 详细技术参数

DETAILED TECHNICAL SPECIFICATIONS

IP21 单相并离网混合逆变器

AUSEND-IP21-1SGAOG-LP

IP21 grid-tied and off-grid hybrid inverter

| 参数 / PARAMETER                                     |                                                                             | 6.2 kW               | 12 kW |
|----------------------------------------------------|-----------------------------------------------------------------------------|----------------------|-------|
| 并网与市电模式 / PARALLEL & MAINS MODE                    |                                                                             |                      |       |
| 允许并网数量<br>Parallel units                           | 单机 / 1-6 台 / Standalone / 1-6 units                                         |                      |       |
| 额定输入电压<br>Rated input voltage                      | 230 V AC +/-5%                                                              |                      |       |
| 输入电压范围<br>Input voltage range                      | 170-280 V AC / 90-280 V AC, +/-2%                                           |                      |       |
| 频率<br>Frequency                                    | 50 / 60 Hz, 自动检测 / 50 / 60 Hz, auto detection                               |                      |       |
| 频率范围<br>Frequency range                            | 47-55 Hz (50 Hz) / 57-65 Hz (60 Hz)                                         |                      |       |
| 过载与短路保护<br>Overload & short-circuit protection     | 断路器 / Circuit breaker                                                       |                      |       |
| 市电模式最大效率<br>Mains-mode max. efficiency             | >95%                                                                        |                      |       |
| 旁路与逆变转换<br>Bypass-to-inverter transfer             | 典型值 10 ms / 10 ms typical                                                   |                      |       |
| 交流反灌保护<br>AC backflow protection                   | 支持 / Included                                                               |                      |       |
| 最大旁路电流<br>Max. bypass current                      | 40 A                                                                        | 60 A                 |       |
| 逆变输出 / INVERTER OUTPUT                             |                                                                             |                      |       |
| 输出波形<br>Output waveform                            | 纯正弦波 / Pure sine wave                                                       |                      |       |
| 额定输出功率<br>Rated output power                       | 6,200 VA / 6,200 W                                                          | 12,000 VA / 12,000 W |       |
| 功率因数<br>Power factor                               | 1.0                                                                         |                      |       |
| 额定输出电压<br>Rated output voltage                     | 230 V AC                                                                    |                      |       |
| 输出电压误差<br>Output voltage tolerance                 | +/-5%                                                                       |                      |       |
| 输出频率<br>Output frequency                           | 50 Hz +/-0.3 Hz / 60 Hz +/-0.3 Hz                                           |                      |       |
| 最大离网效率<br>Max. off-grid efficiency                 | >92%                                                                        | >93%                 |       |
| 过载保护<br>Overload protection                        | 102-125%: 5 min; 125-150%: 10 s; >150%: 5 s                                 |                      |       |
| 峰值功率<br>Peak power                                 | 11,000 VA                                                                   | 22,000 VA            |       |
| 带载电机能力<br>Motor load capacity                      | 3 HP                                                                        | 7 HP                 |       |
| 旁路断路器<br>Bypass circuit breaker                    | 40 A                                                                        | 63 A                 |       |
| 电池与充电 / BATTERY & CHARGING                         |                                                                             |                      |       |
| 额定电池电压<br>Rated battery voltage                    | 48 V DC, 最低启动电压 44 V / 48 V DC, minimum starting voltage 44 V               |                      |       |
| 电池电压范围<br>Battery voltage range                    | 40-60 V DC                                                                  |                      |       |
| 省电模式<br>Power-saving mode                          | 负载 <=50 W 时启用 / Activates at load <=50 W                                    |                      |       |
| 电池类型<br>Battery type                               | 铅酸或锂电池 / Lead-acid or lithium battery                                       |                      |       |
| 最大市电充电电流<br>Max. mains charge current              | 60 A                                                                        | 150 A                |       |
| 充电电流误差<br>Charge current tolerance                 | +/-5 A DC                                                                   |                      |       |
| 充电电压范围<br>Charge voltage range                     | 40-60 V DC                                                                  |                      |       |
| 充电短路保护<br>Charge short-circuit protection          | 断路器和熔断器 / Circuit breaker and fuse                                          |                      |       |
| 光伏输入 / PV INPUT                                    |                                                                             |                      |       |
| MPPT路数<br>MPPT channels                            | 1                                                                           | 2                    |       |
| 最大光伏开路电压<br>Max. PV open-circuit voltage           | 500 V DC                                                                    |                      |       |
| 光伏工作电压范围<br>PV operating voltage range             | 100-500 V DC                                                                | 80-500 V DC          |       |
| MPPT电压范围<br>MPPT voltage range                     | 120-450 V DC                                                                | 90-450 V DC          |       |
| 最大光伏输入功率<br>Max. PV input power                    | 6,200 W                                                                     | 9,000 W + 9,000 W    |       |
| 最大光伏输入电流<br>Max. PV input current                  | 22 A                                                                        | 27 A + 27 A          |       |
| 太阳能充电电流<br>Solar charge current                    | 0-100 A                                                                     | 0-150 A              |       |
| 接线保护<br>Wiring protection                          | 反接保护 / Reverse-polarity protection                                          |                      |       |
| 最大混合充电电流<br>Max. hybrid charge current             | 0-100 A                                                                     | 0-150 A              |       |
| 认证、环境与结构 / CERTIFICATION, ENVIRONMENT & MECHANICAL |                                                                             |                      |       |
| 认证规格<br>Certification                              | CE (IEC 62109-1/2); EN 61000, C2                                            |                      |       |
| 工作温度<br>Operating temperature                      | -15 至 +55 °C; 45 °C 以上降额 / -15 to +55 °C; derating above 45 °C              |                      |       |
| 储存温度<br>Storage temperature                        | -25 至 +55 °C / -25 to +55 °C                                                |                      |       |
| 相对湿度<br>Relative humidity                          | 5-95%, 无凝露 / 5-95%, non-condensing                                          |                      |       |
| 散热方式<br>Cooling                                    | 强制风冷, 风扇转速可调 / Forced-air cooling, adjustable fan speed                     |                      |       |
| 通信接口<br>Communication                              | USB / RS485 / Wi-Fi / GPRS / 干接点 / USB / RS485 / Wi-Fi / GPRS / dry contact |                      |       |
| 尺寸<br>Dimensions                                   | 460 x 305 x 115 mm                                                          | 540 x 350 x 120 mm   |       |
| 重量<br>Weight                                       | 10.8 kg                                                                     | 20 kg                |       |
| 应用 / APPLICATION                                   |                                                                             |                      |       |
| 适用于住宅光伏自发自用、并网储能、停电备电及后期并网扩容。                      |                                                                             |                      |       |

# IP54 单相并离网混合逆变器

IP54 GRID-TIED AND OFF-GRID HYBRID INVERTER

AUSEND-IP54-1SGAOG-LP

在 12kW 单相平台上加强环境防护，适合半户外和高防护需求的安装位置。



### 12kW 单相平台

12kW single phase

### 48V 低压电池

48V battery system

### IP54 系列机身

IP54-series enclosure

### 并离网混合运行

Hybrid operation

### 双路光伏输入

Dual PV input

### 住宅及轻商用

Home and light commercial

## 详细技术参数

AUSEND-IP54-1SGAOG-LP

DETAILED TECHNICAL SPECIFICATIONS

IP54 单相并离网混合逆变器

IP54 grid-tied and off-grid hybrid inverter

| 参数 / PARAMETER                      | 12 kW                             |
|-------------------------------------|-----------------------------------|
| 基本参数 / BASIC                        |                                   |
| 内部型号<br>Internal model              | AUSEND-SP148V150-500P             |
| 工作温度<br>Operating temperature       | -10 至 +55 °C / -10 to +55 °C      |
| 防护等级<br>Protection rating           | IP54                              |
| 安全等级<br>Safety class                | I 类 / Class I                     |
| 交流输出 / AC OUTPUT                    |                                   |
| 额定功率<br>Rated power                 | 12,000 VA / 12,000 W              |
| 额定电压<br>Rated voltage               | 230 V AC                          |
| 额定电流<br>Rated current               | 52.2 A                            |
| 电池与交流输入 / BATTERY & AC INPUT        |                                   |
| 电池电压范围<br>Battery voltage range     | 40-60 V DC                        |
| 最大电池电流<br>Max. battery current      | 260 A                             |
| 交流输入电压范围<br>AC input voltage range  | 170-280 V AC                      |
| 额定频率<br>Rated frequency             | 50 / 60 Hz                        |
| 最大交流旁路电流<br>Max. AC bypass current  | 60 A                              |
| 最大交流充电电流<br>Max. AC charge current  | 150 A                             |
| 光伏输入 / PV INPUT                     |                                   |
| 最大光伏输入功率<br>Max. PV input power     | 9,000 W + 9,000 W                 |
| 最大开路电压<br>Max. open-circuit voltage | 500 V DC                          |
| MPPT电压范围<br>MPPT voltage range      | 90-450 V DC                       |
| 最大光伏输入电流<br>Max. PV input current   | 27 A + 27 A                       |
| 最大充电电流<br>Max. charge current       | 150 A                             |
| 应用 / APPLICATION                    | 适用于半户外墙面、车库、设备间及对防尘防水要求更高的单相储能项目。 |

# 三相低压并离网混合逆变器

THREE-PHASE LOW-VOLTAGE HYBRID INVERTER

AUSEND-IP65-1SGAOG-LP

以 48V 低压电池配合三相交流输出，兼顾较高光伏接入能力与多路 MPPT。



### 三相 380/400V 输出

Three-phase output

### 高光伏接入能力

High PV capacity

### 48V 低压电池

48V low-voltage battery

### 离网高浪涌能力

High surge support

### 3 路 MPPT

Three MPPT channels

### 户外系列结构

Outdoor-series enclosure

## 详细技术参数

DETAILED TECHNICAL SPECIFICATIONS

AUSEND-IP65-1SGAOG-LP

三相低压并离网混合逆变器

Three-phase low-voltage hybrid inverter

| 参数 / PARAMETER                          |                                                                                  | 8KS48P3     | 10KS48P3    | 12KS48P3 |
|-----------------------------------------|----------------------------------------------------------------------------------|-------------|-------------|----------|
| 光伏输入 / PV INPUT                         |                                                                                  |             |             |          |
| 最大输入电压<br>Max. input voltage            | 1,000 V                                                                          |             |             |          |
| 短路电流<br>Short-circuit current           | 45 A / 22.5 A                                                                    |             |             |          |
| 最大输入电流<br>Max. input current            | 18 A / 18 A                                                                      | 36 A / 18 A | 36 A / 18 A |          |
| MPPT路数<br>MPPT channels                 | 3                                                                                |             |             |          |
| MPPPT工作电压范围<br>MPPT operating range     | 200-800 V                                                                        |             |             |          |
| 满载工作电压范围<br>Full-load voltage range     | 350-800 V                                                                        |             |             |          |
| 最大光伏输入功率<br>Max. PV input power         | 16 kW                                                                            | 20 kW       | 24 kW       |          |
| 电池输入 / BATTERY INPUT                    |                                                                                  |             |             |          |
| 电池类型<br>Battery type                    | 锂电池或铅酸电池 / Lithium or lead-acid battery                                          |             |             |          |
| 额定电池电压<br>Rated battery voltage         | 48 V (44-60 V)                                                                   |             |             |          |
| 最大充电电流<br>Max. charge/discharge current | 190 A                                                                            | 210 A       | 240 A       |          |
| 最大充电功率<br>Max. charge/discharge power   | 9,100 VA                                                                         | 10,000 VA   | 12,000 VA   |          |
| 并网输入与输出 / GRID INPUT & OUTPUT           |                                                                                  |             |             |          |
| 额定电压<br>Rated voltage                   | 380 / 400 V (3W + N + PE)                                                        |             |             |          |
| 额定频率<br>Rated frequency                 | 50 Hz; 默认 49-51 Hz / 可调 47-53 Hz / 50 Hz; 49-51 Hz default / 47-53 Hz adjustable |             |             |          |
| 最大输出电流<br>Max. output current           | 13.3 A                                                                           | 16.7 A      | 20 A        |          |
| 最大输出功率<br>Max. output power             | 8,000 VA                                                                         | 10,000 VA   | 12,000 VA   |          |
| 最大视在功率<br>Max. apparent power           | 8,800 VA                                                                         | 11,000 VA   | 13,200 VA   |          |
| 功率因数<br>Power factor                    | 1.0; 0.8 超前至 0.8 滞后 / 1.0; 0.8 leading to 0.8 lagging                            |             |             |          |
| 离网输出 / OFF-GRID OUTPUT                  |                                                                                  |             |             |          |
| 额定电压<br>Rated voltage                   | 380 / 400 V (3W + N + PE)                                                        |             |             |          |
| 额定频率<br>Rated frequency                 | 50 Hz                                                                            |             |             |          |
| 额定电流<br>Rated current                   | 11.6 A                                                                           | 14.5 A      | 17.4 A      |          |
| 最大输出功率<br>Max. output power             | 8,000 VA                                                                         | 10,000 VA   | 12,000 VA   |          |
| 过载能力<br>Overload capacity               | >200%，持续 15 s / >200% for 15 s                                                   |             |             |          |
| 输出电流谐波<br>Output current THD            | 非线性负载 <3%；线性负载 <1.5% / <3% nonlinear load; <1.5% linear load                     |             |             |          |
| 基本与结构 / BASIC & MECHANICAL              |                                                                                  |             |             |          |
| 防护等级<br>Protection rating               | IP65                                                                             |             |             |          |
| 安全等级<br>Safety class                    | I 类 / Class I                                                                    |             |             |          |
| 工作温度<br>Operating temperature           | -25 至 +60 °C / -25 to +60 °C                                                     |             |             |          |
| 设备隔离<br>Device isolation                | 光伏至交流侧非隔离；电池侧隔离 / Non-isolated PV-AC; isolated battery side                      |             |             |          |
| 过电压类别<br>Overvoltage category           | OVC III（交流市电），OVC II（光伏） / OVC III (AC mains), OVC II (PV)                       |             |             |          |
| 尺寸<br>Dimensions                        | 475 x 683 x 256 mm                                                               |             |             |          |
| 重量<br>Weight                            | 38 kg                                                                            |             |             |          |
| 海拔<br>Altitude                          | 2,000 m                                                                          |             |             |          |

应用 / APPLICATION

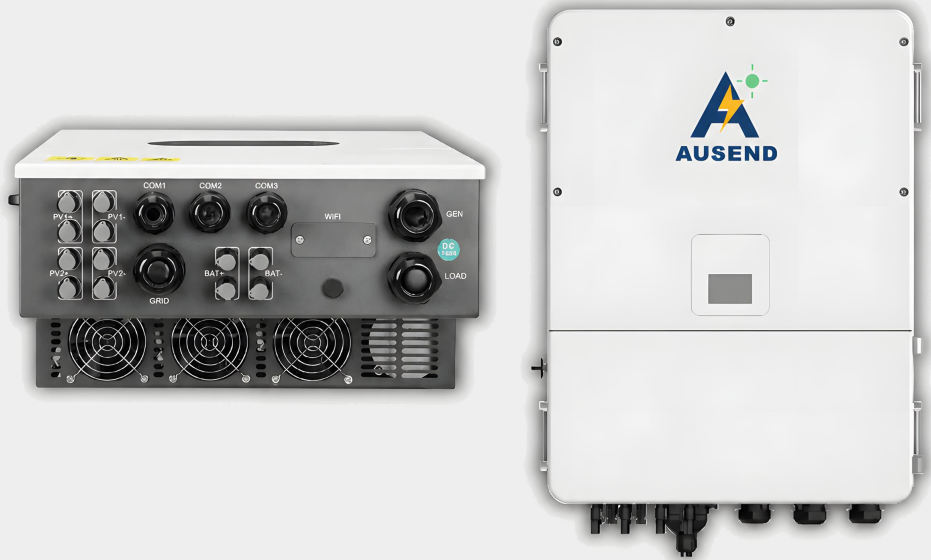
适用于采用 48V 电池平台的三相住宅、小型商业储能与微电网项目。

# 三相高压并离网混合逆变器

THREE-PHASE HIGH-VOLTAGE HYBRID INVERTER

AUSEND-IP65-1SGAOG-HP

面向中大型高压储能系统，支持双电池输入和多路 MPPT，覆盖工商业负载与微电网。



30-60kW 功率范围

30-60kW range

160-700V 高压电池

High-voltage battery

双电池输入

Dual battery input

3/4 路 MPPT

3/4 MPPT channels

最大效率 97.6%

Max. efficiency 97.6%

工商业与微电网

C&I ESS and microgrid

## 详细技术参数

DETAILED TECHNICAL SPECIFICATIONS

AUSEND-IP65-1SGAOG-HP

三相高压并离网混合逆变器

Three-phase high-voltage hybrid inverter

| 参数 / PARAMETER                               | ZXB01-TPH-303G-EU                                                                          | ZXB01-TPH-403G-EU   | ZXB01-TPH-503G-EU   | ZXB01-TPH-603G-EU |
|----------------------------------------------|--------------------------------------------------------------------------------------------|---------------------|---------------------|-------------------|
| 光伏输入 / PV INPUT                              |                                                                                            |                     |                     |                   |
| 最大直流输入功率<br>Max. DC input power              | 39 kW                                                                                      | 52 kW               | 65 kW               | 78 kW             |
| 最大直流输入电压<br>Max. DC input voltage            | 1,000 V                                                                                    |                     |                     |                   |
| 启动电压<br>Starting voltage                     | 180 V                                                                                      |                     |                     |                   |
| MPPT电压范围<br>MPPT voltage range               | 150-850 V                                                                                  |                     |                     |                   |
| 满载直流电压范围<br>Full-load DC voltage range       | 360-850 V                                                                                  | 360-850 V           | 450-850 V           | 450-850 V         |
| 额定直流输入电压<br>Rated DC input voltage           | 600 V                                                                                      |                     |                     |                   |
| 输入电流<br>Input current                        | 36+36+36 A                                                                                 | 36+36+36+36 A       | 36+36+36+36 A       | 36+36+36+36 A     |
| 最大短路电流<br>Max. short-circuit current         | 55+55+55 A                                                                                 | 55+55+55+55 A       | 55+55+55+55 A       | 55+55+55+55 A     |
| MPPT数量<br>MPPT quantity                      | 3                                                                                          | 4                   | 4                   | 4                 |
| 每路MPPT组串数<br>Strings per MPPT                | 2+2+2                                                                                      | 2+2+2+2             | 2+2+2+2             | 2+2+2+2           |
| 交流输入与输出 / AC INPUT & OUTPUT                  |                                                                                            |                     |                     |                   |
| 额定交流输出功率<br>Rated AC output power            | 30 kW                                                                                      | 40 kW               | 50 kW               | 60 kW             |
| 最大交流输出功率<br>Max. AC output power             | 33 kW                                                                                      | 44 kW               | 55 kW               | 66 kW             |
| 交流输入与输出电流<br>AC input/output current         | 45.5 / 43.5 A                                                                              | 60.7 / 58.0 A       | 75.8 / 72.5 A       | 91 A              |
| 最大交流输入与输出电流<br>Max. AC input/output current  | 50 / 47.9 A                                                                                | 66.7 / 63.8 A       | 83.4 / 79.8 A       | 100 A             |
| 三相不平衡输出电流<br>Three-phase unbalanced output   | 60 A                                                                                       | 70 A                | 83.3 A              | 100 A             |
| 最大连续交流电流<br>Max. continuous AC current       | 118 A                                                                                      | 158 A               | 197 A               | 237 A             |
| 离网峰值功率<br>Off-grid peak power                | 1.5 倍额定功率，持续 10 s / 1.5 x rated power for 10 s                                             |                     |                     |                   |
| 发电机与智能负载电流<br>Generator & smart-load current | 45.5 / 118 / 45.5 A                                                                        | 60.7 / 158 / 60.7 A | 75.8 / 197 / 75.8 A | 91 / 237 / 91 A   |
| 功率因数<br>Power factor                         | 0.9 超前至 0.9 滞后 / 0.9 leading to 0.9 lagging                                                |                     |                     |                   |
| 交流电压与频率<br>AC voltage & frequency            | 50 / 60 Hz; 3L/N/PE, 220/380 或 230/400 V AC / 50 / 60 Hz; 3L/N/PE, 220/380 or 230/400 V AC |                     |                     |                   |
| 电流谐波<br>Current THD                          | <3%                                                                                        |                     |                     |                   |
| 电网直流分量<br>Grid DC component                  | <0.5% In                                                                                   |                     |                     |                   |
| 电池与效率 / BATTERY & EFFICIENCY                 |                                                                                            |                     |                     |                   |
| 电池类型<br>Battery type                         | 锂电池 / Lithium battery                                                                      |                     |                     |                   |
| 电池电压范围<br>Battery voltage range              | 160-700 V                                                                                  |                     |                     |                   |
| 最大充电电流<br>Max. charge current                | 50 A + 50 A                                                                                |                     |                     |                   |
| 最大放电电流<br>Max. discharge current             | 50 A + 50 A                                                                                |                     |                     |                   |
| 电池输入数量<br>Battery inputs                     | 2                                                                                          |                     |                     |                   |
| 电池管理<br>Battery management                   | 自适应 BMS / Adaptive BMS                                                                     |                     |                     |                   |
| 最大效率<br>Max. efficiency                      | 97.6%                                                                                      |                     |                     |                   |
| 欧洲效率<br>European efficiency                  | 97.0%                                                                                      |                     |                     |                   |
| MPPT效率<br>MPPT efficiency                    | 99.9%                                                                                      |                     |                     |                   |
| 保护与认证 / PROTECTION & CERTIFICATION           |                                                                                            |                     |                     |                   |
| 直流侧保护<br>DC-side protection                  | 孤岛、反接、绝缘及漏电监测 / Island, reverse polarity, insulation and leakage monitoring                |                     |                     |                   |
| 输出保护<br>Output protection                    | 过流、短路及浪涌保护 / Overcurrent, short-circuit and surge protection                               |                     |                     |                   |
| 电弧保护<br>Arc-fault protection                 | AFCI 可选 / AFCI optional                                                                    |                     |                     |                   |
| 防雷保护<br>Lightning protection                 | 直流侧 II 级；交流侧 III 级 / DC side level II; AC side level III                                   |                     |                     |                   |
| 并网认证<br>Grid standards                       | IEC 61727 / 62116; EN 50549-1                                                              |                     |                     |                   |
| 安全与EMC<br>Safety & EMC                       | IEC/EN 61000-6-1/2/3/4; IEC/EN 62109-1/2                                                   |                     |                     |                   |
| 环境与结构 / ENVIRONMENT & MECHANICAL             |                                                                                            |                     |                     |                   |
| 工作温度<br>Operating temperature                | -40 至 +60 °C; 45 °C 以上降额 / -40 to +60 °C; derating above 45 °C                             |                     |                     |                   |
| 冷却方式<br>Cooling                              | 智能风冷 / Intelligent air cooling                                                             |                     |                     |                   |
| 噪声<br>Noise                                  | <70 dB                                                                                     |                     |                     |                   |
| BMS通信端口<br>BMS communication                 | CAN                                                                                        |                     |                     |                   |
| 监控方式<br>Monitoring                           | Wi-Fi / App                                                                                |                     |                     |                   |
| 尺寸<br>Dimensions                             | 宽 537 × 高 833 × 深 295.5 mm, 不含连接器 / 537 W x 833 H x 295.5 D mm, excluding connectors       |                     |                     |                   |
| 重量<br>Weight                                 | 82.5 kg                                                                                    |                     |                     |                   |
| 防护等级<br>Protection rating                    | IP65                                                                                       |                     |                     |                   |
| 安装方式<br>Installation                         | 壁挂式 / Wall-mounted                                                                         |                     |                     |                   |
| 质保<br>Warranty                               | 5 年; 10 年可选 / 5 years; 10 years optional                                                   |                     |                     |                   |

应用 / APPLICATION

适用于工厂、园区、商业建筑、微电网和高压电池储能系统。

# 磷酸铁锂储能电池系列

LITHIUM IRON PHOSPHATE BATTERY SERIES

## AUSEND LFP BATTERY SERIES

统一采用 51.2V 平台，覆盖机架、壁挂、落地和柜式结构，可按容量与安装空间组合。



### 磷酸铁锂体系

LiFePO4 chemistry

### 机架、壁挂与落地

Multiple installation types

### 51.2V 低压平台

51.2V platform

### BMS 安全管理

Integrated BMS

### 多种容量等级

Multiple capacities

### 状态显示与通信

Display and communication

# 详细技术参数

AUSEND LFP BATTERY SERIES

DETAILED TECHNICAL SPECIFICATIONS

## 磷酸铁锂储能电池系列

Lithium iron phosphate battery series

| 参数 / PARAMETER                      | 5 kWh                                                                                       | 10 kWh             | 15 kWh 级 / 15 kWh class | 16 kWh             |
|-------------------------------------|---------------------------------------------------------------------------------------------|--------------------|-------------------------|--------------------|
| 电池组参数 / BATTERY PACK                |                                                                                             |                    |                         |                    |
| 电池类型<br>Battery type                | 磷酸铁锂 / Lithium iron phosphate                                                               |                    |                         |                    |
| 标称电压<br>Nominal voltage             | 51.2 V                                                                                      |                    |                         |                    |
| 标称能量<br>Nominal energy              | 5.120 kWh                                                                                   | 10.240 kWh         | 14.336 kWh              | 16.0768 kWh        |
| 充电限制电压<br>Charge limit voltage      | 58.4 V +/-0.8 V                                                                             |                    |                         |                    |
| 放电截止电压<br>Discharge cut-off voltage | 40 V +/-0.8 V                                                                               |                    |                         |                    |
| 额定充电电流<br>Rated charge current      | 100 A                                                                                       | 200 A              | 200 A                   | 200 A              |
| 最大充电电流<br>Max. charge current       | 105 A +/-5 A                                                                                | 210 A +/-5 A       | 210 A +/-5 A            | 210 A +/-5 A       |
| 额定放电电流<br>Rated discharge current   | 100 A                                                                                       | 200 A              | 200 A                   | 200 A              |
| 最大放电电流<br>Max. discharge current    | 120 A <=60 s                                                                                | 220 A <=60 s       | 220 A <=60 s            | 220 A <=60 s       |
| 工作温度<br>Operating temperature       | 充电 0-55 °C；放电 -20-55 °C；储存 -20-35 °C / Charge 0-55 °C；discharge -20-55 °C；storage -20-35 °C |                    |                         |                    |
| 循环寿命<br>Cycle life                  | 25 +/-2 °C 下 >=3,000 次 / >=3,000 cycles at 25 +/-2 °C                                       |                    |                         |                    |
| 大气压力与湿度<br>Pressure & humidity      | 86-106 kPa / 15-90% RH                                                                      |                    |                         |                    |
| 尺寸<br>Dimensions                    | 600 x 400 x 255 mm                                                                          | 900 x 420 x 270 mm | 900 x 420 x 270 mm      | 900 x 420 x 270 mm |
| 重量<br>Weight                        | 44.4 kg                                                                                     | 103 kg             | 119 kg                  | 119 kg             |
| 叠加数量<br>Stackable groups            | 1-4 组 / 1-4 groups                                                                          |                    |                         |                    |
| 应用 / APPLICATION                    | 适用于住宅储能、离网备电、机架式电池组和逆变器配套；兼容协议需按项目确认。                                                       |                    |                         |                    |

# IP54 防水磷酸铁锂电池

IP54 LITHIUM IRON PHOSPHATE BATTERY

AUSEND-LFP-16KWH-IP54

立式紧凑结构，适合对环境防护和安装占地有明确要求的住宅或小型商用储能。



### 16.08kWh 标称容量

16.08kWh nominal

### 实时状态显示

Status display

### 51.2V 电池平台

51.2V platform

### BMS 多重保护

BMS protection

### IP54 系列结构

IP54-series enclosure

### 立式紧凑安装

Compact floor-standing

## 详细技术参数

AUSEND-LFP-16KWH-IP54

DETAILED TECHNICAL SPECIFICATIONS

IP54 防水磷酸铁锂电池

IP54 lithium iron phosphate battery

|                                     |                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| 参数 / PARAMETER                      | 16.0768 kWh                                                                                 |
| 电池组参数 / BATTERY PACK                |                                                                                             |
| 电池类型<br>Battery type                | 磷酸铁锂 / Lithium iron phosphate                                                               |
| 标称电压<br>Nominal voltage             | 51.2 V                                                                                      |
| 标称能量<br>Nominal energy              | 16.0768 kWh                                                                                 |
| 防护等级<br>Protection rating           | IP54                                                                                        |
| 充电限制电压<br>Charge limit voltage      | 58.4 V                                                                                      |
| 放电截止电压<br>Discharge cut-off voltage | 40 V                                                                                        |
| 额定充电电流<br>Rated charge current      | 150 A                                                                                       |
| 最大充电电流<br>Max. charge current       | 200 A                                                                                       |
| 额定放电电流<br>Rated discharge current   | 200 A                                                                                       |
| 最大放电电流<br>Max. discharge current    | 225 A                                                                                       |
| 工作温度<br>Operating temperature       | 充电 0-55 °C；放电 -20-55 °C；储存 -20-35 °C / Charge 0-55 °C；discharge -20-55 °C；storage -20-35 °C |
| 大气压力与湿度<br>Pressure & humidity      | 86-106 kPa / 15-90% RH                                                                      |
| 尺寸<br>Dimensions                    | 460 x 260 x 940 mm                                                                          |
| 重量<br>Weight                        | 128 kg                                                                                      |
| 应用 / APPLICATION                    | 适用于住宅备电、离网系统和紧凑型光储一体化配置。                                                                    |

# 32kWh 磷酸铁锂电池

32KWH LITHIUM IRON PHOSPHATE BATTERY

AUSEND-LFP-32KWH

大容量低压电池柜，适合需要更长备电时长或更高日用电量的住宅与小型商业场景。



### 32.15kWh 标称容量

32.15kWh nominal

### 300A 最大电流

300A maximum current

### 51.2V 低压平台

51.2V platform

### 落地式柜体

Floor-standing cabinet

### 150A 额定电流

150A rated current

### 长时备电应用

Extended backup

## 详细技术参数

AUSEND-LFP-32KWH

DETAILED TECHNICAL SPECIFICATIONS

32kWh 磷酸铁锂电池

32kWh lithium iron phosphate battery

| 参数 / PARAMETER                      |                                                                                               | 32.1536 kWh |
|-------------------------------------|-----------------------------------------------------------------------------------------------|-------------|
| 电池组参数 / BATTERY PACK                |                                                                                               |             |
| 电池类型<br>Battery type                | 磷酸铁锂 / Lithium iron phosphate                                                                 |             |
| 标称电压<br>Nominal voltage             | 51.2 V                                                                                        |             |
| 标称能量<br>Nominal energy              | 32.1536 kWh                                                                                   |             |
| 充电限制电压<br>Charge limit voltage      | 58.4 V                                                                                        |             |
| 放电截止电压<br>Discharge cut-off voltage | 40 V                                                                                          |             |
| 额定充电电流<br>Rated charge current      | 150 A                                                                                         |             |
| 最大充电电流<br>Max. charge current       | 300 A                                                                                         |             |
| 额定放电电流<br>Rated discharge current   | 150 A                                                                                         |             |
| 最大放电电流<br>Max. discharge current    | 300 A                                                                                         |             |
| 工作温度<br>Operating temperature       | 充电 0-55 °C；放电 -20-55 °C；储存 -20-35 °C / Charge 0-55 °C; discharge -20-55 °C; storage -20-35 °C |             |
| 大气压力与湿度<br>Pressure & humidity      | 86-106 kPa / 15-90% RH                                                                        |             |
| 尺寸<br>Dimensions                    | 350 x 900 x 850 mm                                                                            |             |
| 重量<br>Weight                        | 241.86 kg                                                                                     |             |
| 应用 / APPLICATION                    | 适用于大户型住宅、别墅、小型商业和对备电时长要求较高的低压储能系统。                                                            |             |

# 家庭储能一体机

HOME ENERGY STORAGE ALL-IN-ONE SYSTEM

AUSEND-HES-AIO SERIES

将逆变、储能、电气保护与人机界面集成于统一柜体，简化设备匹配和安装。



12kW 逆变功率

12kW inverter

LED 状态显示

LED status display

15kWh 等级电池

15kWh-class battery

BMS 与通信

BMS communication

逆变与电池一体化

All-in-one integration

家庭备电与自用

Backup and self-use

储能系统

ENERGY STORAGE SYSTEMS

# 详细技术参数

AUSEND-HES-AIO SERIES

DETAILED TECHNICAL SPECIFICATIONS

家庭储能一体机

Home energy storage all-in-one system

| 参数 / PARAMETER                        |                                                                                             | 12 kW / 14.336 kWh |
|---------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
| 逆变器基本参数 / INVERTER BASIC              |                                                                                             |                    |
| 内部型号<br>Internal model                | AUSEND-SPI48120V150-500P                                                                    |                    |
| 工作温度<br>Operating temperature         | -10 至 +55 °C / -10 to +55 °C                                                                |                    |
| 防护等级<br>Protection rating             | IP20                                                                                        |                    |
| 安全等级<br>Safety class                  | I 类 / Class I                                                                               |                    |
| 交流输出与电池输入 / AC OUTPUT & BATTERY INPUT |                                                                                             |                    |
| 额定功率<br>Rated power                   | 12,000 VA / 12,000 W                                                                        |                    |
| 额定电压<br>Rated voltage                 | 230 V AC                                                                                    |                    |
| 额定电流<br>Rated current                 | 52.2 A                                                                                      |                    |
| 电池电压范围<br>Battery voltage range       | 40-60 V DC                                                                                  |                    |
| 最大电池电流<br>Max. battery current        | 260 A                                                                                       |                    |
| 交流输入范围<br>AC input range              | 170-280 V AC                                                                                |                    |
| 额定频率<br>Rated frequency               | 50 / 60 Hz                                                                                  |                    |
| 最大交流旁路电流<br>Max. AC bypass current    | 60 A                                                                                        |                    |
| 最大交流充电电流<br>Max. AC charge current    | 150 A                                                                                       |                    |
| 光伏输入 / PV INPUT                       |                                                                                             |                    |
| 最大光伏输入功率<br>Max. PV input power       | 6,000 W x 2                                                                                 |                    |
| 最大开路电压<br>Max. open-circuit voltage   | 500 V DC                                                                                    |                    |
| MPPT电压范围<br>MPPT voltage range        | 90-450 V DC                                                                                 |                    |
| 最大光伏输入电流<br>Max. PV input current     | 22 A x 2                                                                                    |                    |
| 最大充电电流<br>Max. charge current         | 150 A                                                                                       |                    |
| 电池模块 / BATTERY MODULE                 |                                                                                             |                    |
| 电池类型<br>Battery type                  | 磷酸铁锂 / Lithium iron phosphate                                                               |                    |
| 标称电压<br>Nominal voltage               | 51.2 V                                                                                      |                    |
| 标称能量<br>Nominal energy                | 14.336 kWh                                                                                  |                    |
| 充电限制电压<br>Charge limit voltage        | 58.4 V +/-0.8 V                                                                             |                    |
| 放电截止电压<br>Discharge cut-off voltage   | 40 V +/-0.8 V                                                                               |                    |
| 额定充电电流<br>Rated charge current        | 200 A                                                                                       |                    |
| 最大充电电流<br>Max. charge current         | 210 A +/-5 A                                                                                |                    |
| 额定放电电流<br>Rated discharge current     | 200 A                                                                                       |                    |
| 最大放电电流<br>Max. discharge current      | 220 A <=60 s                                                                                |                    |
| 工作温度<br>Operating temperature         | 充电 0-55 °C；放电 -20-55 °C；储存 -20-35 °C / Charge 0-55 °C；discharge -20-55 °C；storage -20-35 °C |                    |
| 循环寿命<br>Cycle life                    | 25 +/-2 °C 下 >=3,000 次 / >=3,000 cycles at 25 +/-2 °C                                       |                    |
| 大气压力与湿度<br>Pressure & humidity        | 86-106 kPa / 15-90% RH                                                                      |                    |
| 尺寸<br>Dimensions                      | 900 x 420 x 270 mm                                                                          |                    |
| 重量<br>Weight                          | 119 kg                                                                                      |                    |
| 叠加数量<br>Stackable groups              | 1-4 组 / 1-4 groups                                                                          |                    |
| 应用 / APPLICATION                      |                                                                                             |                    |
| 适用于住宅光伏自用、停电备电、分时电价管理与全屋关键负载供电。       |                                                                                             |                    |

# 高低压储能柜

HIGH AND LOW VOLTAGE ENERGY STORAGE CABINET

AUSEND-ESS-96/261 SERIES

模块化柜体集成电池、消防与温控，可根据项目功率、容量与电气架构配置。



## 96-261kWh 容量范围

96-261kWh range

## 柜体消防

Cabinet fire protection

## 模块化柜体

Modular cabinet

## 风冷温控

Air cooling

## Pack 级消防

Pack-level fire protection

## 峰谷与备电应用

Peak shifting and backup

# 详细技术参数

AUSEND-ESS-96/261 SERIES

DETAILED TECHNICAL SPECIFICATIONS

## 高低压储能柜

High and low voltage energy storage cabinet

|                                     |                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| 参数 / PARAMETER                      | 96.4608 kWh                                                                                   |
| 电池柜参数 / BATTERY CABINET             |                                                                                               |
| 电池类型<br>Battery type                | 磷酸铁锂 / Lithium iron phosphate                                                                 |
| 标称电压<br>Nominal voltage             | 51.2 V                                                                                        |
| 标称能量<br>Nominal energy              | 96.4608 kWh                                                                                   |
| 防护等级<br>Protection rating           | IP65                                                                                          |
| 标准配置<br>Standard configuration      | Pack 级消防、柜体消防、风冷 / Pack-level fire protection, cabinet fire protection, air cooling           |
| 充电限制电压<br>Charge limit voltage      | 58.4 V                                                                                        |
| 放电截止电压<br>Discharge cut-off voltage | 40 V                                                                                          |
| 额定充电电流<br>Rated charge current      | 900 A                                                                                         |
| 最大充电电流<br>Max. charge current       | 1,200 A                                                                                       |
| 额定放电电流<br>Rated discharge current   | 900 A                                                                                         |
| 最大放电电流<br>Max. discharge current    | 1,350 A                                                                                       |
| 工作温度<br>Operating temperature       | 充电 0-55 °C；放电 -20-55 °C；储存 -20-35 °C / Charge 0-55 °C; discharge -20-55 °C; storage -20-35 °C |
| 大气压力与湿度<br>Pressure & humidity      | 86-106 kPa / 15-90% RH                                                                        |
| 尺寸<br>Dimensions                    | 1,360 x 1,550 x 2,000 mm                                                                      |
| 重量<br>Weight                        | 1,000 kg                                                                                      |
| 应用 / APPLICATION                    | 用于峰谷套利、调峰、备电和新能源消纳；电压、串并联、PCS 与持续功率必须按项目确认。                                                   |

# 工商业液冷储能一体柜

COMMERCIAL LIQUID-COOLED ENERGY STORAGE CABINET

AUSEND-1XLP | DZ105261

面向园区、工厂和商业负载的液冷储能柜，将高压电池、PCS、BMS、EMS 与温控集中集成。



125kW / 261kWh

Power and capacity

BMS + EMS 管理

BMS and EMS

832V 高压电池

832V HV battery

CAN / RS485 / 4G

Multi-protocol

液冷温控

Liquid cooling

工商业储能

Commercial ESS

## 详细技术参数

AUSEND-1XLP | DZ105261

DETAILED TECHNICAL SPECIFICATIONS

工商业液冷储能一体柜

Commercial liquid-cooled energy storage cabinet

| 参数 / PARAMETER                            | DZ105261                                                       |
|-------------------------------------------|----------------------------------------------------------------|
| 直流电池参数 / DC BATTERY                       |                                                                |
| 额定电池容量<br>Rated battery capacity          | 261 kWh; 215 / 241 kWh 可选 / 261 kWh; 215 / 241 kWh optional    |
| 额定电池电压<br>Rated battery voltage           | 832 V                                                          |
| 电池电压范围<br>Battery voltage range           | 720-864 V                                                      |
| 电池类型<br>Battery type                      | 方形磷酸铁锂电池 / Prismatic lithium iron phosphate                    |
| 电芯容量<br>Cell capacity                     | 314 Ah                                                         |
| 标准充放电倍率<br>Standard charge/discharge rate | 0.5 C                                                          |
| 电池组串并联方式<br>Battery pack configuration    | 1P × 52S, 共 5 组 / 1P × 52S, 5 sets                             |
| 交流参数 / AC PARAMETERS                      |                                                                |
| 额定交流功率<br>Rated AC power                  | 125 kW                                                         |
| 最大效率<br>Max. efficiency                   | 97%                                                            |
| 额定交流电压<br>Rated AC voltage                | 230 / 400 V                                                    |
| 额定交流频率<br>Rated AC frequency              | 50 / 60 Hz                                                     |
| 电流总谐波畸变率<br>Current THD                   | 额定功率下 <3% / <3% at rated power                                 |
| 功率因数<br>Power factor                      | -1 超前至 +1 滞后 / -1 leading to +1 lagging                        |
| 电压总谐波畸变率<br>Voltage THD                   | 线性负载下 <3% / <3% with linear load                               |
| 系统参数 / SYSTEM                             |                                                                |
| 能量循环效率<br>Round-trip efficiency           | 88%                                                            |
| 防护等级<br>Protection rating                 | IP54                                                           |
| 防腐等级<br>Anti-corrosion rating             | C3 标准配置; C4 / C5 可选 / C3 default; C4 / C5 optional             |
| 相对湿度<br>Relative humidity                 | 0-95%, 无凝露 / 0-95%, non-condensing                             |
| 环境温度<br>Ambient temperature               | -30 至 +55 °C; 45 °C 以上降额 / -30 to +55 °C; derating above 45 °C |
| 冷却方式<br>Cooling                           | 液冷 / Liquid cooling                                            |
| 海拔<br>Altitude                            | <4,000 m; 2,000 m 以上降额 / <4,000 m; derating above 2,000 m      |
| BMS通信<br>BMS communication                | CAN 2.0b                                                       |
| EMS通信<br>EMS communication                | 4G / CAN / RS485                                               |
| 尺寸<br>Dimensions                          | 1,692 x 1,385 x 2,220 mm                                       |
| 重量<br>Weight                              | 约 2,200 kg / Approx. 2,200 kg                                  |
| 质保<br>Warranty                            | 5 年 / 5 years                                                  |
| 应用 / APPLICATION                          | 适用于工厂、园区、商业建筑的峰谷套利、需量管理、光伏消纳与应急备电。                             |

# 光伏车棚

PHOTOVOLTAIC CARPORT

AUSEND PHOTOVOLTAIC CARPORT

将遮阳车棚、光伏发电、储能和汽车充电整合为统一能源场景。



## 遮阳防雨

Shade and weather cover

## 充电桩稳定供电

EV charging support

## 光伏清洁发电

Solar generation

## 远程监控

Remote monitoring

## 储能与峰谷管理

Storage and peak shifting

## 园区与公共停车场

Campus and public parking

# 光伏车棚方案

AUSEND PHOTOVOLTAIC CARPORT

PHOTOVOLTAIC CARPORT SOLUTION

## 光伏车棚综合能源方案

INTEGRATED PHOTOVOLTAIC CARPORT SOLUTION

奥晟迪光伏车棚融合光伏发电、储能供电与汽车充电，将停车空间转化为清洁能源基础设施。系统在车棚顶部铺设光伏组件，为车辆提供遮阳、防雨空间，同时可通过储能系统实现电能存储、峰谷调节和应急备电，适用于园区、商业中心、企业厂区及公共停车场。

AUSEND photovoltaic carports integrate solar generation, energy storage and EV charging, transforming parking areas into clean-energy infrastructure. Rooftop PV modules provide shade and weather protection, while storage supports energy shifting and backup power. The solution is designed for campuses, commercial centers, industrial sites and public parking facilities.

### 智能储能

SMART ENERGY STORAGE

储能系统可结合峰谷电价策略调节充放电，并在市电异常时提供备用电力，帮助充电设施获得更稳定的能源支持。

Storage can follow time-of-use strategies and provide backup power during grid interruptions, supporting more reliable EV charging.

### 耐用安全

DURABLE & SAFE

采用适合户外长期使用的防腐结构设计，并根据项目所在地的风、雪、雨水及基础条件进行工程配置。

Corrosion-resistant structures are engineered for local wind, snow, drainage and foundation conditions to support long-term outdoor use.

### 一站式集成

ONE-STOP INTEGRATION

统一规划光伏、储能、车辆充电与能量监控，集中呈现发电、用电及储能状态，便于远程管理和日常运维。

Solar, storage, EV charging and monitoring are planned as one system, providing centralized energy visibility and remote management.

## 场景应用 / APPLICATIONS

### 企业园区

CORPORATE CAMPUS

为公务车、员工车辆及通勤车队提供清洁充电条件，协同利用园区光伏电力，帮助优化用能成本并展现低碳运营形象。

Provides clean charging for company vehicles, employee cars and commuter fleets, while using on-site solar to support lower-carbon operations and better energy-cost management.

### 商业综合体

COMMERCIAL COMPLEX

利用停车空间建设可视化绿色能源设施，在改善停车体验的同时，为顾客提供便利的新能源车辆充电服务，强化项目绿色形象。

Turns parking areas into visible clean-energy facilities, improving the parking experience and offering convenient EV charging while strengthening the property's green profile.

### 公共停车场

PUBLIC PARKING

作为城市充电基础设施的补充，提高公共停车区域的新能源服务能力，缓解高峰时段充电压力，支持低碳交通网络建设。

Adds charging capacity to public parking areas, helps relieve peak-time demand and supports the development of a lower-carbon urban transport network.

# 1152Wh 便携式储能电源

1152WH PORTABLE POWER STATION

AUSEND PORTABLE POWER SERIES

面向露营、移动办公、应急备电和小型设备供电，提供交流、直流与 USB 多接口。



### 1152Wh 电池容量

1152Wh capacity

### 1200W 交流输出

1200W AC output

### 3 个交流接口

Three AC outlets

### USB 与 Type-C

USB and Type-C

### 15W 无线充电

15W wireless charging

### 露营与应急备电

Camping and emergency

## 详细技术参数

AUSEND PORTABLE POWER SERIES

DETAILED TECHNICAL SPECIFICATIONS

### 1152Wh 便携式储能电源

1152Wh portable power station

| 参数 / PARAMETER                 | 1152 Wh                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| 电池与输入 / BATTERY & INPUT        |                                                                                                                  |
| 电池平台<br>Battery                | 19.2 V / 60 Ah                                                                                                   |
| 标称能量<br>Nominal energy         | 1,152 Wh                                                                                                         |
| 充电器输入<br>Charger input         | XT60, 最大 21.9 V / 20 A / XT60, 21.9 V / 20 A max.                                                                |
| 光伏输入<br>PV input               | XT60, 22-36 V / 最大 20 A / XT60, 22-36 V / 20 A max.                                                              |
| 输出与接口 / OUTPUT & INTERFACES    |                                                                                                                  |
| 交流输出<br>AC output              | 3 个交流插座, 总计 1,200 W, 110 / 220 V, 50 / 60 Hz, 正弦波 / 3 outlets, 1,200 W total, 110 / 220 V, 50 / 60 Hz, sine wave |
| USB-A输出<br>USB-A output        | 4 个端口, QC3.0, 最大 18 W / 4 ports, QC3.0, 18 W max.                                                                |
| USB-C输出<br>USB-C output        | 2 个端口, PD / QC3.0, 最大 18 W / 2 ports, PD / QC3.0, 18 W max.                                                      |
| 直流输出<br>DC output              | 4 个端口, 最大 12 V / 10 A / 4 ports, 12 V / 10 A max.                                                                |
| 照明<br>LED light                | 4 W, 两档亮度及 SOS / 4 W, two brightness levels and SOS                                                              |
| 无线充电<br>Wireless charging      | 15 W                                                                                                             |
| 结构与包装 / MECHANICAL & PACKAGING |                                                                                                                  |
| 电芯<br>Cell                     | 33140 / 15 Ah / 3.2 V 圆柱形磷酸铁锂电芯 / 33140 / 15 Ah / 3.2 V cylindrical LFP                                          |
| 尺寸<br>Dimensions               | 242 x 194 x 263 mm                                                                                               |
| 材质<br>Material                 | PC + V0 阻燃材料 / PC + V0 flame-retardant                                                                           |
| 颜色<br>Color                    | 黑色 / 白色, 可定制 / Black / white, customizable                                                                       |
| 产品重量<br>Product weight         | 约 9.8 kg / Approx. 9.8 kg                                                                                        |
| 包装尺寸<br>Packaging size         | 335 x 285 x 405 mm                                                                                               |
| 应用 / APPLICATION               | 适用于露营、移动办公、应急照明、小型电器和户外作业的临时供电。                                                                                  |

# 蓝牙音响便携式储能电源

PORTABLE POWER STATION WITH BLUETOOTH SPEAKER

AUSEND PORTABLE AUDIO POWER SERIES

将便携供电与蓝牙音响结合，适用于轻量露营、户外娱乐与小功率应急设备。



192Wh / 384Wh

Two capacity options

USB 与 Type-C

USB and Type-C

300W 交流输出

300W AC output

24V 光伏输入

24V solar input

蓝牙音响

Bluetooth speaker

轻量便携

Compact carry design

## 详细技术参数

AUSEND PORTABLE AUDIO POWER SERIES

DETAILED TECHNICAL SPECIFICATIONS

蓝牙音响便携式储能电源

Portable power station with Bluetooth speaker

| 参数 / PARAMETER                    |                                                                                     | 192 Wh | 384 Wh         |
|-----------------------------------|-------------------------------------------------------------------------------------|--------|----------------|
| 电池与输入 / BATTERY & INPUT           |                                                                                     |        |                |
| 电池平台<br>Battery                   | 12.8 V / 15 Ah                                                                      |        | 12.8 V / 30 Ah |
| 标称能量<br>Nominal energy            | 192 Wh                                                                              |        | 384 Wh         |
| 适配器输入<br>Adapter input            | 14.6 V / 5 A                                                                        |        | 14.6 V / 10 A  |
| 光伏输入<br>PV input                  | PWM 跟踪, 最大 24 V; 双 DC5521 / PWM tracking, 24 V max.; dual DC5521                    |        |                |
| 输出与接口 / OUTPUT & INTERFACES       |                                                                                     |        |                |
| 交流输出<br>AC output                 | 2 个交流插座, 300 W, 110 / 220 V, 50 / 60 Hz / 2 outlets, 300 W, 110 / 220 V, 50 / 60 Hz |        |                |
| USB-C输出<br>USB-C output           | QC3.0 / PD, 最大 18 W / QC3.0 / PD, 18 W max.                                         |        |                |
| USB-A1输出<br>USB-A1 output         | QC3.0, 最大 18 W / QC3.0, 18 W max.                                                   |        |                |
| USB-A2与A3<br>USB-A2 & A3          | 合计 15 W / 15 W combined                                                             |        |                |
| 直流输出<br>DC output                 | 2 个端口, 12 V / 10 A, 最大 120 W / 2 ports, 12 V / 10 A, 120 W max.                     |        |                |
| 蓝牙音响<br>Bluetooth speaker         | 内置 / Integrated                                                                     |        |                |
| 结构与包装 / MECHANICAL & PACKAGING    |                                                                                     |        |                |
| 电芯<br>Cell                        | 33140 圆柱形磷酸铁锂电芯 / 33140 cylindrical lithium iron phosphate                          |        |                |
| 尺寸<br>Dimensions                  | 278 x 129 x 215 mm                                                                  |        |                |
| 材质<br>Material                    | PC + V0 阻燃材料 / PC + V0 flame-retardant                                              |        |                |
| 颜色<br>Color                       | 黑色 / 白色, 可定制 / Black / white, customizable                                          |        |                |
| 产品重量<br>Product weight            | 约 2.8 kg / Approx. 2.8 kg                                                           |        |                |
| 包装尺寸<br>Packaging size            | 320 x 170 x 270 mm                                                                  |        |                |
| 应用 / APPLICATION                  |                                                                                     |        |                |
| 适用于户外娱乐、轻量露营、手机与数码设备充电、小型照明和应急供电。 |                                                                                     |        |                |

# 大容量拉杆式便携储能电源

HIGH-CAPACITY TROLLEY PORTABLE POWER STATION

AUSEND TROLLEY POWER SERIES

采用拉杆与脚轮结构，适用于户外作业、移动施工、应急救援和较长时间独立供电。



2304Wh / 3072Wh

Two capacity options

1000W 交流输入

1000W AC input

51.2V 电池平台

51.2V platform

拉杆与脚轮

Handle and wheels

400W MPPT 光伏

400W MPPT solar

移动作业供电

Mobile field power

便携式储能

PORTABLE POWER

## 详细技术参数

AUSEND TROLLEY POWER SERIES

DETAILED TECHNICAL SPECIFICATIONS

大容量拉杆式便携储能电源

High-capacity trolley portable power station

| 参数 / PARAMETER                      |                                                                                   | 2304 Wh        | 3072 Wh |
|-------------------------------------|-----------------------------------------------------------------------------------|----------------|---------|
| 电池与输入 / BATTERY & INPUT             |                                                                                   |                |         |
| 电池平台<br>Battery                     | 51.2 V / 45 Ah                                                                    | 51.2 V / 60 Ah |         |
| 标称能量<br>Nominal energy              | 2,304 Wh                                                                          | 3,072 Wh       |         |
| DC5521光伏输入<br>DC5521 PV input       | 10-45 V / 10 A, MPPT                                                              |                |         |
| XT60光伏输入<br>XT60 PV input           | 10-45 V, 最大 400 W, MPPT / 10-45 V, 400 W max., MPPT                               |                |         |
| 交流输入<br>AC input                    | 180-250 V, 额定 1,000 W / 180-250 V, rated 1,000 W                                  |                |         |
| 输出与接口 / OUTPUT & INTERFACES         |                                                                                   |                |         |
| USB-C1输出<br>USB-C1 output           | QC3.0 18 W / PD 最大 30 W / QC3.0 18 W / PD 30 W max.                               |                |         |
| USB-C2输出<br>USB-C2 output           | PD / QC3.0, 最大 100 W / PD / QC3.0, 100 W max.                                     |                |         |
| USB-A1输出<br>USB-A1 output           | 最大 60 W / 60 W max.                                                               |                |         |
| USB-A2输出<br>USB-A2 output           | 最大 18 W / 18 W max.                                                               |                |         |
| 直流输出<br>DC output                   | DC + 点烟器, 12 V / 10 A, 最大 120 W / DC + cigarette lighter, 12 V / 10 A, 120 W max. |                |         |
| 照明<br>LED light                     | 4-8 W, 两档亮度及 SOS / 4-8 W, two brightness levels and SOS                           |                |         |
| 结构与包装 / MECHANICAL & PACKAGING      |                                                                                   |                |         |
| 电芯<br>Cell                          | 33140 圆柱形磷酸铁锂电芯 / 33140 cylindrical lithium iron phosphate                        |                |         |
| 尺寸<br>Dimensions                    | 470 x 210 x 300 mm                                                                |                |         |
| 材质<br>Material                      | 钣金 / Sheet metal                                                                  |                |         |
| 颜色<br>Color                         | 黑色, 可定制 / Black, customizable                                                     |                |         |
| 产品重量<br>Product weight              | 约 30.42 kg / Approx. 30.42 kg                                                     |                |         |
| 包装尺寸<br>Packaging size              | 570 x 320 x 525 mm                                                                |                |         |
| 应用 / APPLICATION                    |                                                                                   |                |         |
| 适用于移动施工、户外作业、应急救援、展会活动和需要较长续航的临时供电。 |                                                                                   |                |         |