

YOUR ENERGY SAVING EXPERT

## PowerFusion Series - X500KT

### Diesel Generator Hybrid Energy Storage System

Makes Diesel Generator Set  
Energy Saving and Efficient.



Meet the needs of high-load or high-impact loads in industrial applications, such as construction, manufacturing, and mining. Widely used for temporary power consumption and emergency power supply.

Saving Fuel  
Consumption up to

# 30%

**All-In-One** Integrated Battery + SEMS + SPCS

**4 Sets** Parallel Up to 2 MW/1863.6 kWh

#### Rapid Deployment

Support lifting and forklift transportation



#### AC-Coupled Power System

Diesel GEN/PV System/Grid

#### Remote Monitoring & Management

via App and Web



#### Plug & Play

No installation required

### Technical Specifications

| Model                                 | X500KT-E/A                                          |
|---------------------------------------|-----------------------------------------------------|
| <b>AC Output Data (On-Grid Mode)</b>  |                                                     |
| Rated Power                           | 500 kW                                              |
| Max. Output Power                     | 550 kW (@20s)                                       |
| Rated Voltage                         | 400 V (±10%)                                        |
| Rated Current                         | 721 A                                               |
| Grid Frequency                        | 50 Hz                                               |
| AC Connection                         | 3 W + N + PE                                        |
| THDI                                  | ≤ 3%                                                |
| Power Factor                          | -1 ~ +1                                             |
| <b>AC Output Data (Off-Grid Mode)</b> |                                                     |
| Rated Power                           | 500 kW                                              |
| Max. Rated / Apparent Power           | 500 kW / 500 kVA <sup>[1]</sup>                     |
| Rated Voltage / Frequency             | 400 V / 50 Hz                                       |
| THDV (Linear Load)                    | ≤ 3%                                                |
| <b>Battery Data</b>                   |                                                     |
| Battery Chemistry                     | LiFePO <sub>4</sub>                                 |
| Nominal Energy                        | 465.9 kWh                                           |
| Working Voltage Range                 | 600 V ~ 1000 V                                      |
| Nominal Charging Current              | 280 A (0.5C)                                        |
| Nominal Discharging Current           | 2 x 280 A (1C)                                      |
| Max. Discharging Current              | 750 A                                               |
| DOD                                   | 90%                                                 |
| <b>Compatible Diesel Generator</b>    |                                                     |
| Rated Power                           | ≤ 850 kVA                                           |
| Rated Voltage                         | 400 V                                               |
| Rated Frequency                       | 50 Hz                                               |
| <b>General</b>                        |                                                     |
| Parallel Capable                      | Yes (Up to 4)                                       |
| EMS                                   | SEMS3000 12 inch LCD Touch Panel                    |
| Ingress Rating                        | IP54                                                |
| Topology                              | Transformer                                         |
| Working Temperature                   | -4 ~ 122°F (-20 ~ 50°C)                             |
| Storage Temperature                   | -40 ~ 149°F (-40 ~ 65°C)                            |
| Relative Humidity                     | 5 ~ 95% (No condensing)                             |
| System Noise                          | < 65dB                                              |
| Cooling                               | Liquid Cooling                                      |
| Fire Suppression System               | Included                                            |
| Altitude                              | 5,000 (>3,000 derating)                             |
| Dimensions, LxWxH                     | 114.17 x 90.55 x 94.49 inch (2900 x 2300 x 2400 mm) |
| Weight                                | 18739.29 lbs (8,500 kg)                             |