



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 **50%**

All-In-One Integrated Battery + SEMS + SPCS

8 Sets Parallel Up to 4MVA/3.8MWh

 **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

AC Output Data (On-Grid Mode)

Rated Power	500 kW
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

AC Output Data (Off-Grid Mode)

Rated Power	500 kW
Max. Rated / Apparent Power	500 kW / 500 kVA ^[1]
Rated Voltage / Frequency	400 V / 50 Hz
THDV (Linear Load)	≤3%

Battery Data

Battery Chemistry	LiFePO ₄
Nominal Energy	474.2kWh
Working Voltage Range	728 V ~ 936 V
Max. Continuous Charge Current	285 A
Max. Continuous Discharge Current	570 A
DOD	90%

Compatible Diesel Generator

Rated Power	≤850 kVA
Rated Voltage	400 V
Rated Frequency	50 Hz

General

Parallel Capable	Yes (Up to 8)
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	≤6,562ft / 2,000m
Dimensions, LxWxH	144.9 x 78 x 94.5inch / 3680 x 1980 x 2400mm
Weight	18739.29 lbs (8,500 kg)

[1] Depends on the output power of the battery system.

All pictures shown are for reference only and data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions. Only authorized personnel are allowed to operate or make adjustments to the systems. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.