

YOUR ENERGY
SAVING EXPERT

X250KT DG + ESS Solution

Makes Diesel Generator Set
Energy Saving and Efficient.



Saving Fuel
Consumption up to
30%

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.

All-In-One

Integrated Battery + SEMS + SPCS

4 Sets Parallel
Up to 1 MW/614.4 kWh

250 kW
High Output

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



sales@roypow.com

www.roypow.com

Technical Specifications

Model	X250KT-U/A	X250KT-E/A
AC Output Data (On-grid Mode)		
Rated Power	150 kW	150 kW
Max. Rated / Apparent Power	250 kW / 280 kVA ^[1]	250 kW / 280 kVA ^[1]
Rated Voltage	480 V (±15%)	400 V (±15%)
Rated Current	183 A	220 A
Grid Frequency	60 Hz	50 Hz
AC Connection	3 W + N	3 W + N
THDI	≤ 3%	≤ 3%
Power Factor	-1 ~ +1	-1 ~ +1
AC Output Data (Off-grid Mode)		
Rated Power	250 kW	250 kW
Max. Rated / Apparent Power	250 kW / 250 kVA ^[1]	250 kW / 250 kVA ^[1]
Rated Voltage / Frequency	480 V / 60 Hz	400 V / 50 Hz
THDV (Linear Load)	≤3%	≤3%
Battery Data		
Battery Chemistry	LiFePO ₄	LiFePO ₄
Nominal Energy	153.6 kWh	153.6 kWh
Working Voltage Range	600V ~ 876V	600 V ~ 876 V
Nominal Charging Current	100 A	100 A
Nominal Discharging Current	200 A	200 A
Max. Discharging Current	300 A	300 A
DOD	90%	90%
Compatible Diesel Generator		
Rated Power	≤400 kVA	≤400 kVA
Rated Voltage	480 V	400 V
Rated Frequency	60 Hz	50 Hz
General		
Parallel Capable	Yes (Up to 4)	Yes (Up to 4)
EMS	SEMS3000 12 inch LCD Touch Panel	SEMS3000 12 inch LCD Touch Panel
Ingress Rating	NEMA 3R	IP54
Topology	Transformer	Transformer
Working Temperature	-4 ~ 131°F (-20 ~ 55°C)	-4 ~ 122°F (-20 ~ 50°C)
Storage Temperature	-40 ~ 149°F (-40 ~ 65°C)	-40 ~ 149°F (-40 ~ 65°C)
Relative Humidity	5 ~ 95% (No condensing)	5 ~ 95% (No condensing)
System Noise	<65 dB	<65dB
Cooling	Intelligent temperature control (Battery room) Air cooling (Inverter room)	
Fire Suppression System	Included	Included
Altitude	5,000 (>3,000 derating)	5,000 (>3,000 derating)
Certifications	UL1973 / UL1741 / UL9540A / FCC Part 15 Class B / UN38.3	CE / UN38.3
Dimensions, LxWxH	90.55 x 68.90 x 94.49 inch (2,300 x 1,750 x 2,400 mm)	
Weight	10,361.72 lbs (4,700 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 batteries. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.