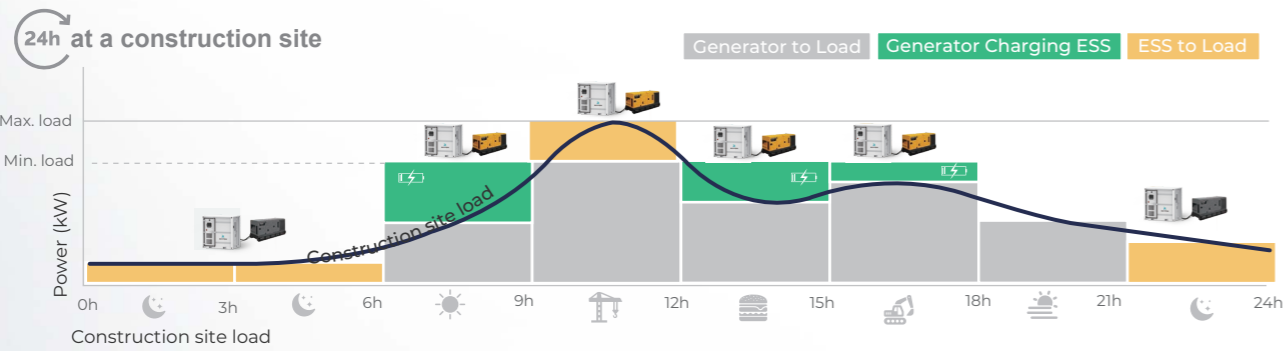


# PowerFusion Series

## X250KT Hybrid Energy Storage System

Up to **30%** Fuel Cost Savings

Reduce Generator Runtime & Improve Efficiency



**Maximize Reliability, Maximize Efficiency**  
Eliminates downtime from generator breakdowns and maintenance, and protects sensitive drives from poor power variations in voltage from the grid.

**Reduce OPEX and Carbon Footprint**  
Reduces diesel fuel consumption and maintenance costs while simultaneously lowering Scope 1 Emissions.

**Easy to Deploy, Simple to Operate & Maintain**  
Plug-and-play installation with minimal on-site maintenance. Remote monitoring and control for optimized performance and reliability.

**Designed for Ruggedness and Durability**  
The robust, industrial-grade design ensures long-term reliability in harsh jobsite environments, minimizing unplanned downtime and maintenance.

**Flexible Power for Diverse Jobsites**  
Easily integrates with solar, diesel generators, and grid power, and scales up to 8 units in parallel, to meet the energy needs of various jobsites.

**Enhanced Safety and Redundancy**  
Reduces risk from diesel fires and spills, noise, and noxious fumes, while providing power redundancy to complete critical evolutions in the event of generator breakdowns or grid power outage.

## Technical Specifications

Model	X250KT-AU
<b>AC Output Data (On-grid Mode)</b>	
Rated Power	150 kW
Peak Apparent Power	250 kVA for 210s, R Load
Rated Voltage	400 V (±10%)
Rated Current	217 A
Grid Frequency	50 Hz
AC Connection	3 P + N + PE
<b>AC Output Data (Off-grid Mode)</b>	
Rated Power	150 kW
Peak Apparent Power	250 kVA for 210s, R Load
Rated Voltage / Frequency	400 V / 50 Hz
THDV (Linear Load)	≤3%
Power Factor	-1 ~ +1
<b>Battery Data</b>	
Battery Chemistry	LiFePO <sub>4</sub>
Nominal Energy	153.6 kWh
Working Voltage Range	600 V ~ 876 V
Nominal Charging Current	100 A
Nominal Discharging Current	200 A
Max. Discharging Current	300 A
DOD	90%
<b>Compatible Generator</b>	
Max. Apparent Power	≤400 kVA
Rated Voltage	400 Vac (3P + N)
Rated Frequency	50 Hz
<b>General</b>	
Parallel Capability	Up to 8 units
EMS / HMI	SEMS3000 with 12 inch LCD Touch Panel
Ingress Rating	IP54
Topology	Transformer-based
Operating Temperature	-20 ~ 50°C (-4 ~ 122°F)
Storage Temperature	-40 ~ 65°C (-40 ~ 149°F)
Relative Humidity	5 ~ 95% RH (Non-condensing)
System Noise	<65 dB
Cooling	Intelligent Thermal Management
Fire Suppression System	Integrated
Altitude	2,000m
Dimensions (LxWxH)	2,250 x 1,550 x 2,200 mm (88.6 x 61.1 x 86.7 inch)
Weight	5,000 kg (11,023.2 lbs)

Note: All data are based on ROYPOW standard test procedures, actual performance may vary according to local conditions.