



TAKE THE SUN HOME

ES130-261 INDUSTRIAL AND COMMERCIAL

(PHOTOVOLTAIC ENERGY STORAGE SYSTEM / ENERGY STORAGE SYSTEM)



Safe
And Reliable



IP65
Protection Grade



Real Time
Monitoring



System Integration
Pre Assembled System



Intelligent Thermal
System Management



AI Artificial
Intelligence

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Model	ES130-261 Industrial and Commercial Photovoltaic Energy Storage System	ES130-261 Industrial and Commercial Energy Storage System
Rated Power	130 kW	130 kW
Rated Capacity	261 kWh	261 kWh
Rated Charge	130 kW	130 kW
/Discharge Power		
Dimensions (Width * Length * Height)	1320x1350x2050 mm	1000x1350x2050 mm
Weight	2T	2.1T
Protection Level	IP65	IP65
Equipment Cooling Method	Air Cooling	Air Cooling
Battery Cooling Method	Liquid Cooling	Liquid Cooling
Grid Connection	Yes	Yes
PV Input	Yes	/

AC Output Parameters	
Wiring Configuration	3L/N/PE
Rated Output Power	130 kW
Maximum Output Apparent Power	143 kVA
Rated Output Voltage	400 Va.c.
Output Voltage Range	320~480 Va.c.
Rated Output Frequency	50 Hz/60 Hz
Grid Frequency Range	45 Hz~55 Hz/55 Hz~65 Hz
Rated Output Current	188 Aa.c. (@400 Va.c.)
Maximum Output Current	206 Aa.c. (@400 Va.c.)
Total Harmonic Distortion (THD)	<3% (at Rated Power)
Output Current DC Component	<0.5% In
Power Factor	>0.99 (at Rated Power)
Power Factor Adjustment Range	0.8 Leading ~ 0.8 Lagging

Battery Parameters	
Battery Type	IFpP
Battery Pack Configuration	1P 52S
Quantity of Battery Packs	5
Rated Energy	261 kWh
Rated Power	135 kW
Maximum Output Power	145 kW
Rated Voltage	832 V
Voltage Range	728~936 Vd.c.
Rated Current	160 Ad.c.
Maximum Charge Current	160 Ad.c.
Maximum Discharge Current	177 Ad.c.
Battery Charging Protocol	BMS Adaptive System
Cycle Life	≥6000 Times (25 °C, 0.5 P)
Voltage and Current Accuracy	1%

Distribution Cabinet Parameters (Optional)			
Mains Input Power	260 kW	435 kW	875 kW
Mains Input Current	400 Aa.c. (@400 Va.c.)	630 Aa.c. (@400 Va.c.)	1260 Aa.c. (@400 Va.c.)
Grid Rated Power	130 kW	250 kW	500 kW
Grid Maximum Power	143 kVA	275 kVA	550 kVA
Grid Rated Current	188 Aa.c. (@400 Va.c.)	361 Aa.c. (@400 Va.c.)	722 Aa.c. (@400 Va.c.)
Grid Maximum Current	206 Aa.c. (@400 Va.c.)	397 Aa.c. (@400 Va.c.)	794 Aa.c. (@400Va.c.)
Load Power	130 kW	250 kW	500 kW
Load Rated Current	188 Aa.c. (@400 Va.c.)	361 Aa.c. (@400 Va.c.)	722 Aa.c. (@400 Va.c.)
Generator Power	175 kW	435 kW	875 kW
Generator Rated Current	250 Aa.c.(@400 Va.c.)	630 Aa.c. (@400 Va.c.)	1260 Aa.c. (@400 Va.c.)

PV Input Parameters	ES130-261 Industrial and Commercial Photovoltaic Energy Storage System	ES130-261 Industrial and Commercial Energy Storage System
Maximum Input Power	260 kW	/
Maximum Input Voltage	1000 Vd.c.	/
Rated Input Voltage	650 V	/
Start Voltage	220 Vd.c.	/
Minimum Operating Voltage	200 Vd.c.	/
MPPT Operating	200~1000 Vd.c.	/
Voltage Range		
MPPT Power	260 kW	/
Quantity of MMPT	6	/
Quantity of Strings per	4	/
MPPT Channel		
Maximum Current Per MPPT	70 A	/
Maximum Short Circuit	75 A	/
Current Per MPPT		

Other Parameters	
Operating Temperature Range	-20 °C to 50 °C (Derating above 45 °C)
Storage Temperature	-30 °C~60 °C
Operating Humidity Range	0~95% (Non-condensing)
Operating Altitude	3000 m (Derating above 2000 m)
Isolation Method	Transformerless
Topology	Non-isolated
Protection	Anti-Backflow, Anti-Islanding, Over-Temperature Protection, Over-Current Protection, Over-Voltage Protection, Short Circuit Protection, Battery Reverse Polarity Protection, Grid Phase Reversal Protection, Surge Protection, Ground Fault Detection, Smoke Monitoring, Temperature and Humidity Monitoring, Water Leak Detection, Lightning Protection Device
Communication	Ethernet/4G/Wi-Fi (Optional)
Communication Interface	CAN/RS485/USB
Communication Protocol	Modbus TCP/CAN/RS485
Energy Management	Yes
Remote Control	Yes (Northbound Communication)
Human-Machine Interface	LCD/LED/Web
Three-Phase Unbalanced Input	Yes
DI/DO Interface (Dry Contact)	Integrated (4 Groups)
Installation	Floor-Mounted
Cable Entry Method	Bottom Entry
Fire Protection	Smoke Detector, Sound Alarm Gas Fire Suppression/ Deluge Water Fire Suppression System
Warranty	5 Years (Extendable)

Efficiency	
DC Side Efficiency	0.985
Maximum Efficiency	0.99
European Efficiency	0.985

Certification Standards

Grid Connection Standards: VDE 0126, EN50549, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018,PPDS,CEI 0-21,NC RFG+PTPIREE,NRS 097-2-1
Safety Standard: System: IEC/EN 62109-1/-2, AS62109,IEC 62477; **Battery:** IEC/EN 62619 2022,IEC/EN 63056,ISO 13849,IEC/EN 62040-1,IEC/EN 60730-1
EMC: System: EN61000-6-1 EN61000-6-3 ; **Battery:** EN61000-6-1/-2/-3/-4
Transportation: UN38.3 MSDS