

FWHale Series

All-in-One DC Coupled Microgrid System



Modular integrated cabinet for PV & energy storage, easy to install and use.



The modular design of the power unit allows free configuration of the input and output power.



Standard configuration isolation transformer

5 Parallel

Supports up to 5 units in parallel.



Cell-level active equalization



Multi-level thermal management system to eliminate the risk of ignition and explosion

IP55

IP55 rating, supports outdoor installation



Integrated STS module for fast off-grid switching

Model	FWhale-125KT-241E	FWhale-125KT-261E
Battery		
Rated battery storage capacity	241 kWh	261 kWh
Rated system voltage	768V	832V
Battery voltage range	672V~864V	728V~936V
Battery type	Li-ion (LFP)	
Battery Cell capacity	314Ah	
Series and parallel mode of battery	157A	
Max. charge and discharge current	1P*20S*12S	1P*20S*13S
PV		
Rated PV power	125kW	
Max. PV power	137.5KW	
Max. PV input voltage	1100V	
MPPT voltage range	150~700V	
MPPT voltage range full load	350~700V	
Start-up voltage	150V	
No. of MPP trackers	8	
Ma. PV Input Current (A)	50A*8	
AC Input		
Rated AC input power	125kW	
Max. AC input current	198A	
Rated AC voltage	400Vac (-20%~+15%) , 3L/N/PE	
Rated frequency	50/60Hz	
THDI	<3% (Rated Power)	
PF	-1 leading to ~+1 lagging	
AC Output		
Rated AC output power	125kW	
Maximum Output Apparent Power	125kVA	
Rated AC voltage	400Vac	
Rated frequency	50/60Hz	
THDI	<3% (Rated Power)	
PF	-1 leading to ~+1 lagging	
Overload capacity	170% Load @10s, 200% Load @3s	
Isolation Transformer Capacity	125kVA	
Protection and Expansion		
Switching Time	20ms	
Number of Parallel Units (Off-grid)	5	
STS Rated POWER	300kW	
General Data		
Enclosure protection rating	IP55	
Protection class	I	
Corrosion resistance grade	C3	
Isolation mode	High frequency non isolated	
Humidity	0~95% (non-condensing)	
Noise	<70dB	
Operating temperature	-25°C~60°C(derating above 45°C)	
Cooling	Intelligent Air Cooling	
Altitude	≤3000m (>3000 m derated operation)	
Weight	<3300kg	
Dimension [L x D x H]	2050*1190*2250mm	
Communication interface	Ethernet/ WIFI/RS485/CAN/4G(Optional)/Dry	