

EPHS1075/2150

500kW 1.07MWh/1MW 2.15MWh Microgrid-ready PV+ESS
All-in-One Container



All-in-One

Highly integrated design,
modular system that can be
expanded



Green

Easily integrates solar panels
for renewable power generation



Convenient

Flexible configuration
of multiple operating modes



Easy Management

Supports real-time online
monitoring of system status

EPHS1075/2150

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AC Side Parameters

Model	EPHS1075-500	EPHS2150-1000
Rated AC Power	500 kW	1,000 kW
Rated AC Current	722 A	1,445 A
Nominal Grid Voltage	400 Vac, 3W+N+PE	
Voltage Range	320 ~ 460 Vac	
Nominal Grid Frequency	50/60 Hz	
THDi (On-grid)	<3%	
THDu (Off-grid)	≤1% Linear, ≤5% Non-linear	
Adjustable Power Factor	0.8 leading to 0.8 lagging	
Overload Capability	110% Continuous	
Isolation Transformer	315/400	
On-grid and Off-grid Switching	YES	

PV Side Parameters

Model	EPHS1075-500	EPHS2150-1000
Max. PV Input Voltage	1,000 Vdc	1,000 Vdc
Max. Power	720 kW	1,440 kW
MPPT Operating Voltage Range	250 Vdc ~ 850 Vdc	
MPPT Full Load Voltage Range	450 Vdc ~ 850 Vdc	
Buck-Boost Mode	YES	

Battery Parameters

Cell Type	LFP	
Rated Voltage	768 Vdc, 1P240S	
Nominal Energy	1.075 MWh	2.150 MWh
Operating Voltage Range	672 Vdc ~ 850 Vdc	
Max. Charge/Discharge Rate	0.5C @ 25°C	
Cycle Life	≥5,000 Cycles	

System Parameters

Model	EPHS1075-500	EPHS2150-1000
Dimension(W*D*H)	6,058 mm*2,438 mm*2,896 mm	12,192 mm*2,438 mm*2,896 mm
Weight	~21,000 kg	~38,000 kg
Operating Temperature Range	0°C ~ 45°C	
Operating Relative Humidity	0 ~ 95%RH. No Condensation	
Ingress Protection	IP54	
Noise	<75 dB	
Operating Altitude	<3,000m. Derating Above 3,000m	
Thermal Management Mode	Air Conditioner Cooling And Heating	
Fire Protection System	Perfluoro, HFC-227ea(optional)	