

ESY HM15 Three Phase System



Model	HM15[10kWh]	HM15[20kWh]	HM15[30kWh]	HM15[60kWh]	HM15[90kWh]
Battery Count	1	2	3	6	9
Rated Output Power	12/15 kW	12/15 kW	12/15 kW	15 kW	15 kW
Rated Capacity	10.04 kWh	21.08 kWh	31.62 kWh	63.24 kWh	94.86 kWh
Dimension (L*W*H)	660x270x1319 mm	660x270x1725 mm	660x270x2131 mm	660x270x2131 mm+ 660x270x1448 mm *1	660x270x2131 mm+ 660x270x1448 mm *2
Weight	128 kg	213 kg	298 kg	558 kg	818 kg
Grid Connection Rating					
Grid connection		3-phase 230 V / 25 A		3-phase 230 V / 80 A	
Parameters		HM15		HM15	
Battery Type	LiFePO ₄		LiFePO ₄		
Cycle Life	≥6000 times @ 25 °C, SOH=70%		≥6000 times @ 25 °C, SOH=70%		
Max. Efficiency	98.20%		98.20%		
MPPT Efficiency	99.90%		99.90%		
Mounting	Modular Stacking/Ground		Modular Stacking/Ground		
Communication	LAN/Wi-Fi/USB/RS485/CAN		LAN/Wi-Fi/USB/RS485/CAN		
Software Support System	iOS/Android/Web		iOS/Android/Web		
Cooling Method	Intelligent Air Cooling		Intelligent Air Cooling		
Operating Temperature Range	-25 ~ 60 °C		-25 ~ 60 °C		
Altitude	≤3000 m		≤3000 m		
Relative Humidity	0 ~ 100%		0 ~ 100%		
Noise Level	≤45 dB		≤45 dB		
Ingress Protection Rating	IP66		IP66		
Warranty	10 years		10 years		
PV Input		HM15		HM15	
Max. Input Power	30 kW		30 kW		
Max. Input Voltage	1000 Vdc.		1000 Vdc.		
Rated Input Voltage	650 Vdc.		650 Vdc.		
Starting Voltage	180 Vdc.		180 Vdc.		
Min. Voltage	160 Vdc.		160 Vdc.		
MPPT Input Voltage Range	160 ~ 950 Vdc.		160 ~ 950 Vdc.		
Max. Input Current	16 / 32 Adc.		16 / 32 Adc.		
Max. Short-Circuit Current	24 / 48 Adc.		24 / 48 Adc.		
MPPT Count	2		2		
Backup Output		HM15		HM15	
Rated Power	15 kW		15 kW		
Max. Output Apparent Power	15 kVA		15 kVA		
Rated Voltage	400 Vac. (Three Phase)		400 Vac. (Three Phase)		
Rated Current	21.7 Aa.c.		21.7 Aa.c.		
Rated Frequency	50/60 Hz		50/60 Hz		
THDV	≤3% (Linear Load)		≤3% (Linear Load)		
Switch Time	≤10 ms		≤10 ms		
Battery		HM15		HM15	
Rated Voltage	450 Vdc.		450 Vdc.		
Voltage Range	150 ~ 600 Vdc.		150 ~ 600 Vdc.		
Max. Charging Current	50 Adc.		50 Adc.		
Max. Discharging Current	37.5 Adc.		37.5 Adc.		
Grid		HM15		HM15	
Rated Input Power	15 kW		15 kW		
Rated Output Power (Feed-in)	12 kW		15 kW		
Max. Input Apparent Power	15 kVA		15 kVA		
Max. Output Apparent Power	13 kVA		16.5 kVA		
Rated Voltage	400 Vac. (Three Phase)		400 Vac. (Three Phase)		
Voltage Range	320 ~ 480 Vd.c.		320 ~ 480 Vd.c.		
Rated Frequency	50/60 Hz		50/60 Hz		
Rated Current	21.7 Aa.c.		21.7 Aa.c.		
Power Factor	0.8 leading ~ 0.8 lagging		0.8 leading ~ 0.8 lagging		
THDI	≤3%		≤3%		
Smart Port		HM15		HM15	
Max. Input Apparent Power	15 kW		15 kW		
Max. Input Current	21.7 Aa.c.		21.7 Aa.c.		
Protection		HM15		HM15	
Over/Under Voltage Protection	Yes		Yes		
Over/Under Frequency Protection	Yes		Yes		
Overload Protection	Yes		Yes		
Short-Circuit Protection	Yes		Yes		
Over Temperature Protection	Yes		Yes		
Over Current Protection	Yes		Yes		
Leakage Current Protection	Yes		Yes		
Insulation Resistance Protection	Yes		Yes		
Anti-islanding Protection	Yes		Yes		