

ESY HM20 Three Phase System



Model	HM 20[20kwh]	HM 20[30kwh]	HM 20[60kwh]	HM 20[95kwh]
Battery Count	2	3	6	9
Rated Output Power	20 kW	20 kW	20 kW	20 kW
Rated Capacity	21.08 kWh	31.62 kWh	63.24 kWh	94.86 kWh
Dimension (L*W*H)	660x270x1725 mm	660x270x2131 mm	660x270x2131 mm+ 660x270x1448 mm *1	660x270x2131 mm+ 660x270x1448 mm *2
Weight	213 kg	298 kg	558 kg	818 kg

Grid Connection Rating	
Grid connection	3-phase 230 V / 80 A

Parameters	HM20
Battery Type	LiFePO ₄
Cycle Life	≥6000 times @ 25 °C, SOH=70%
Max. Efficiency	98.20%
MPPT Efficiency	99.90%
Mounting	Modular Stacking/Ground
Communication	LAN/Wi-Fi/USB/RS485/CAN
Software Support System	iOS/Android/Web
Cooling Method	Intelligent Air Cooling
Operating Temperature Range	-25 ~ 60 °C
Altitude	≤3000 m
Relative Humidity	0 ~ 100%
Noise Level	≤45 dB
Ingress Protection Rating	IP66
Warranty	10 years

PV Input	HM20
Max. Input Power	30 kW
Max. Input Voltage	1000 Vdc.
Rated Input Voltage	650 Vdc.
Starting Voltage	180 Vdc.
Min. Voltage	160 Vdc.
MPPT Input Voltage Range	160 ~ 950 Vdc.
Max. Input Current	16 / 32 Adc.
Max. Short-Circuit Current	24 / 48 Adc.
MPPT Count	2

Backup Output	HM20
Rated Power	20 kW
Max. Output Apparent Power	20 kVA
Rated Voltage	400 Vac. (Three Phase)
Rated Current	28.9 Aa.c.
Rated Frequency	50/60 Hz
THDV	≤3% (Linear Load)
Switch Time	≤10 ms

Battery	HM20
Rated Voltage	450 Vdc.
Voltage Range	150 ~ 600 Vdc.
Max. Charging Current	50 Adc.
Max. Discharging Current	50 Adc.

Grid	HM20
Rated Power	20 kW
Max. Input Apparent Power	30 kVA
Max. Output Apparent Power	22 kVA
Rated Voltage	400 Vac. (Three Phase)
Voltage Range	320 ~ 480 Vd.c.
Rated Frequency	50/60 Hz
Rated Current	28.9 Aa.c.
Power Factor	0.8 leading ~ 0.8 lagging
THDI	≤3%

Smart Port	HM20
Max. Input Apparent Power	20 kW
Max. Input Current	28.9 Aa.c.

Protection	HM20
Over/Under Voltage Protection	Yes
Over/Under Frequency Protection	Yes
Overload Protection	Yes
Short-Circuit Protection	Yes
Over Temperature Protection	Yes
Over Current Protection	Yes
Leakage Current Protection	Yes
Insulation Resistance Protection	Yes
Anti-islanding Protection	Yes