

ESY HM5 Single Phase System



Model	HM5 [5kWh]	HM5 [10kWh]	HM5 [15kWh]	HM5 [20kWh]	HM5 [25kWh]	HM5 [30kWh]
Battery Count	1	2	3	4	5	6
Rated Output Power	5 kW	5 kW	5 kW	5 kW	5 kW	5 kW
Rated Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh
Dimension (L*W*H)	600x305x778 mm	600x305x998 mm	600x305x1218 mm	600x305x1438 mm	600x305x1658 mm	600x305x1878 mm
Weight	93 kg	143 kg	193 kg	243 kg	293 kg	343 kg

Grid Connection Rating	
Grid connection	1-phase 230 V / 35 to 40 A

Parameters	HM5
Battery Type	LiFePO ₄
Cycle Life	≥6000 times @ 25 °C, SOH=70%
Max. Efficiency	97.80%
MPPT Efficiency	99.90%
Mounting	Modular Stacking/Ground
Communication	LAN/Wi-Fi/USB/RS485/CAN
Software Support System	iOS/Android/Web
Cooling Method	Natural Cooling
Operating Temperature Range	-25 ~ 60 °C (derating over 45 °C)
Altitude	≤4000 m
Relative Humidity	0 ~ 90%
Noise Level	≤25 dB
Ingress Protection Rating	IP66
Warranty	10 years

PV Input	HM5
Max. Input Power	8 kW
Max. Input Voltage	550 Vdc.
Rated Input Voltage	360 Vdc.
Starting Voltage	100 Vdc.
Min. Voltage	150 Vdc.
MPPT Input Voltage Range	100 ~ 540 Vdc.
Max. Input Current	15 / 15 Adc.
Max. Short-Circuit Current	20 / 20 Adc.
MPPT Count	2

Backup Output	HM5
Rated Power	5 kW
Max. Output Apparent Power	5 kVA
Rated Voltage	230 Vac. (208/220/240V adjustable)
Rated Current	21.74 Aac. @ 230V
Output Voltage Range	184 ~ 276 Vac.
Rated Output Frequency	50/60 Hz
THDV	≤3%
Switch Time	≤ 20 ms

Battery	HM5
Rated Voltage	51.2 Vdc.
Voltage Range	40.8 ~ 57.6 Vdc.
Max. Charging Current	100 Adc.
Max. Discharging Current	120 Adc.

Grid	HM5
Rated Input/Output Power	5 kW
Max. Input/Output Apparent Power	5 kVA
Rated Voltage	220/230 Vac. (Single Phase)
Voltage Range	184 ~ 276 Vac.
Rated Frequency	50/60 Hz
Rated Current	21.74 Aac. @ 230V
Power Factor	0.8 leading ~ 0.8 lagging
THDI	≤3%

Protection	HM5
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

Standard Compliance	HM5
Grid Connection	EN 50549-1:2019/AC:2019 (NL), Netcode Elektriciteit 2023, VDE-AR-N 4105, CEI 0-21, G99, NRS 097 enz.
Safety	IEC 62109-1 / -2, IEC 62619:2022, ISO 13849-1:2015, IEC 62040-1
EMC	IEC 61000-6-1 / 61000-6-3