

FM-HYB 3P

CE MSDS IEC UL ISO UN38.3 CEI 0-21



Flexible Application

150-600 V wide battery voltage range



Active Safety

AFCI active arcing protection



High PV Modules

DC 15A/ string, matched with ultra power solar panel



Product Certification

CE, VDE, CEI, RD, UKCA, etc

MODEL	FM-HYB-5kW-3P	FM-HYB-6kW-3P	FM-HYB-8kW-3P	FM-HYB-10kW-3P
Input (DC)				
Recommend max. PV input power	7.500 W	9.000 W	12.000 W	15.000 W
Max. PV input voltage	1.000 V			
Start-up input voltage	180 V			250 V
Rated PV input voltage	600V			
MPPT voltage range	150 - 950 V			200 - 950 V
No. of independent MPPT inputs	2			
Default No. of PV strings per MPPT	1/1			1/2
Max. input current	32A (16A / 16A)			48A (16A / 32A)
Max. input short-circuit current	40A (20A / 20A)			60A (20A / 40A)
Input/ Output (AC)				
Max. AC input power from grid	12.500 VA	15.000 VA	18.600 VA	20.500 VA
Rated AC output power	5.000 W	6.000 W	8.000 W	10.000 W
Max. AC output power	5.500 W	6.600 W	8.800 W	10.000 W
Rated AC output current	7.6 A	9.1 A	12.1 A	15.2 A
Max. AC output current	8.4 A	10.0 A	13.3 A	16.7 A
AC voltage range	270 - 480 V			
Grid frequency range	45 - 55 Hz			
Harmonic (THD) at rated burden	< 3%			
Power factor at rated power	> 0.99			
Adjustable power factor	adj. 0.8 leading t 0.8 lagging			
Efficiency				
Max. efficiency	98.00 %	98.20 %	98.40 %	98.40 %
European efficiency	97.20 %	97.50 %	97.90 %	97.90 %
Protection & Function				
Protection	LVRT / DC reverse polarity / AC short circuit / Leakage current / Battery input reverse polarity			
Surge Protection	DC type II / AC type II			
DC switch (PV)/DC fuse (battery)	Yes			
Battery Data				
Battery type	Li-ion battery			
Battery voltage	150 - 600 V			
Max. charge / discharge current	30 A			
Max. charge power	7.500 W	9.000 W	10.600 W	10.600 W
Max. discharge power	6.000 W	7.200 W	10.600 W	10.600 W
General Data				
Dimension W*D*H (mm)	555*450*186			
Packing Dimension W*D*H (mm)	677*546*324			
Net weight (kg)	<32			
Gross weight (kg)	<36			
Degree of protection	IP65			
Operating ambient temperature range	-25°C ~ 60°C, 0 ~ 100%			
Max. operating altitude	4.000 m			
Display	LED indicator			
Communication	RS485 / CAN / WLAN			
Backup Data				
Rated voltage / Frequency	3 / N / PE 380 V / 400 V / 415 V (±2%), 50 Hz / 60 Hz (±0.5%)			
Total output THDV for liner load	≤ 2%			
Switch time to emergency model	≤ 10 ms			
Rated output power	5.000 W / 5.000 VA	6.000 W / 6.000 VA	8.000 W / 8.000 VA	10.000 W / 10.000 VA
Peak output power	6.000 VA 5min/ 10.000 VA 10s	7.200 VA 5min/ 10.000 VA 10s	9.600 VA 5min	12.000 VA 5min