

INVERTERS

SPF 4-12KT HVM-MPV

Off-grid inverter · Single-phase · 4 – 12 kW · 6 models


4 – 12 kW

RATED POWER

Single-phase

PHASE

1

MPPT TRACKERS

>85 %

MAX. EFFICIENCY

Parameter	Unit	SPF 4KT HVM-MPV	SPF 5KT HVM-MPV	SPF 6KT HVM-MPV	SPF 8KT HVM-MPV	SPF 10KT HVM-MPV	SPF 12KT HVM-MPV
PV input							
Max. PV input power	W	5000			7000		
Max. PV input voltage	V	250					
MPPT voltage range	V	60 – 245					
Max. PV charge current	A	80			120		
Number of MPPT trackers		1			2		
PV strings per MPPT		1					
AC output							
Rated output power	W	4000	5000	6000	8000	10000	12000
Rated AC voltage	V	230					
Nominal output voltage options (RMS)	V	220 / 230 / 240					
Output voltage tolerance (RMS)	%	+/-10					
Phase		Single-phase					
Rated AC frequency	Hz	50/60					
Output frequency tolerance	Hz	+/-0.3					
Peak (surge) power	W	12000	15000	18000	24000	30000	36000
Output waveform		Pure sine wave (same as input in bypass mode)					
Power factor		1.0					
Transfer time		10 ms typical; 20 ms max.					
AC input voltage	V	230					
AC input selectable voltage range		154-272 VAC (for appliances); 184-272 VAC (for UPS)					
AC input frequency range		50 Hz / 60 Hz (auto sensing)					
Max. AC charge current	A	40	50	60	70	80	100

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Battery							
Battery type		Lithium / Lead-acid					
Nominal battery voltage	V	48					
Efficiency							
Max. efficiency	%	>85					
Line mode efficiency	%	>95					
Solar charger max. efficiency	%	>98					
General data							
Dimensions (W x H x D)	mm	360 × 540 × 218			380 × 650 × 255		
Weight	kg	38	41	45	64	66	75
Topology		Built-in pure copper low-frequency transformer					
Ingress protection (IP rating)		IP20					
Operating temperature range	°C	0 – 45					
Communication							
Monitoring		Optional Wi-Fi / GPRS remote monitoring					

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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