

H3PH-1J6/8/10K-EU Three-phase Hybrid Inverter



4 MPPTs with double battery current for super performance



4 MPPTs

4 integrated MPPTs, suitable for houses with multi-pitched rooftops, supports high current solar panels



Double current

Maximum battery charge and discharge current: 50A (the common industrial level is 25A)



Safe

IP66 industry highest protection level
Supports unbalanced and half-wave loads on both the grid and back-up port



EPS

Back-up switch time <10ms



Overload capacity

Backup overload capacity increased to 1.6 times 60 seconds, support ref and AC inductive loads

Model	H3PH-1J6K-EU	H3PH-1J8K-EU	H3PH-1J10K-EU
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Input DC (PV side)			
Recommended max. PV power	9.6 kW	12.8 kW	16 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current	16/16/16/16 A	16/16/16/16 A	16/16/16/16 A
Max. short circuit current	24/24/24/24 A	24/24/24/24 A	24/24/24/24 A
MPPT number	3	4	4
Max. number of input strings per MPPT	1	1	1
Battery			
Battery type		Li-ion	
Battery voltage range		120 - 600 V	
Max. charge / discharge power	6 kW	8 kW	10kW
Max. charge / discharge current	25 A	50 A	50 A
Communication		CAN / RS 485	
Output AC (Grid side)			
Rated output power	6 kW	8 kW	10kW
Max. apparent output power	6 kVA	8 kVA	10kVA
Rated grid voltage		3L / N / PE, 380 / 400 V	
Rated grid frequency		50 / 60 Hz	
Rated grid output current	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Max. output current	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 2 %	
Input AC (Grid side)			
Max. input power	9 kW	12 kW	15 kW
Rated input current	13.8 A	18.2 A	22.8 A
Rated input voltage		3L / N/PE, 380 / 400 V	
Rated input frequency		50 / 60 Hz	
Output AC (Back-up)			
Rated output power	6 kW	8 kW	10kW
Max. apparent output power	9.6 kVA, 60 sec	12.8 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time		< 10 ms	
Rated output voltage		3L / N / PE, 380 / 400V	
Rated frequency		50 / 60 Hz	
Rated output current	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
THDv (@linear load)		< 2 %	
Efficiency			
Max. efficiency	97.91%	98.03%	98.04%
EU efficiency	97.10%	97.41%	97.51%
Protection			
Anti-islanding protection		Yes	
Integrated AFCI (DC arc-fault circuit protection)		Yes	
Insulation Resistor detection		Yes	
Residual current monitoring unit		Yes	
Output over current protection		Yes	
Output short protection		DC:II/AC:II	
Output over voltage protection		Yes	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
PV over voltage protection		Yes	
Battery reverse protection		Yes	
General Data			
Dimensions (W * H * D)		600 * 500 * 230 mm	
Weight		32.6 kg	
Topology		Transformerless	
Self-consumption (night)		< 25 W	
Operating ambient temperature range		-25 ~ + 60°C (-13 ~ 140 °F)	
Protection rating		IP66	
Cooling concept		Natural convection	
Max. operation altitude		4000 m (with no derating)	
Grid connection standard		VDE - AR - N 4105 / VDE V 0124, AS/NSZ 4777.2:2020	
Safety / EMC standard		CE, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	
Features			
PV connection		MC4 connector	
Battery connection		Quick connection plug	
AC connection		Quick connection plug	
Display screen		LED + Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Wi-Fi, LAN	
Max. Number of inverters		6 ¹	
Noise		47 dB	

¹ Only inverters of the same brand and power range are supported for parallel, and the battery capacity under each inverter must also be the same.

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