

THREE-PHASE HYBRID INVERTER

H3PH-1J6/8/10K-EU



4 MPPTs

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



EPS

Back up switch time <10ms



Safe

IP66 industry highest protection level. Supports unbalanced and half wave loads on both the grid and backup port.



Overload Capacity

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



Double Current

Maximum battery charge and discharge current 50A (Industry common level is 25A)

MODEL	H3PH-1J6K-EU	H3PH-1J8K-EU	H3PH-1J10K-EU
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	10 kW
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	10 kW
Max. apparent output power	6 kVA	8 kVA	10 kVA
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		18.2 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	10 kW
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 un		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 x H x D)		600 x 500 x 230	
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. ry. Please be advised to check r before purchasing products.