

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 (0.8leading - 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.