

Three-phase Hybrid Inverter (HV)



Features 3-4 MPPTs and double current for super performance



4 MPPTs

Integrated 4 MPPTs, suitable for multiple pitches villas rooftops, supports high current solar panels



Double current

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



Safe

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




UPS

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
Picture			
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 A / 16 A		
Max. short circuit current	24 A / 24 A / 24 A		
MPPT number	3	4	4
Max. input strings number 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	3 / N / PE, 380 V / 400 V		
Rated grid frequency	50 Hz / 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	3/N/PE, 380 V / 400 V		
Rated input frequency	50 Hz / 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	3 / N / PE, 380 V / 400 V		
Rated frequency	50 Hz / 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	Yes		
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		
Protection rating	IP66		
Cooling concept	Natural convection		
Max. operation altitude	4000 m		
Grid connection standard	VDE - AR - N 4105 / VDE V 0124, AS/NSZ 4777.2:2020		
Safety / EMC standard	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	LED + Bluetooth + APP		
Communication	CAN, RS485, Ethernet, Wi-Fi, LAN; Optional: Cellular		

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