Haier
More Creation, More Possibilities

H1PL-1J3/3.6/8/6K-EU
Single-phase Hybrid Inverter

Includes AFCI module, for added safety

Arc Fault Detection
Integrated AFCI function, actively detects arc faults in PV Array

Safe
IP66 protection

High Yields
Supports 1.6 DC:AC ratio to connect more PV capacity

Harsh environment [1]
Operable at an altitude of 4000 meters

Model	H1PL-1J3K-EU	H1PL-1J3.6K-EU	H1PL-1J5K-EU	H1PL-1J6K-EU
Input DC (PV side)				
Recommended max. PV power	4.8 kW	5.7 kW	8 kW	9.6 kW
Max. input voltage	600 V			
Rated voltage	330 V			
Start-up voltage	90 V			
MPPT voltage range	90-520 V			
Max. input current	16 A / 16 A			
Max. short circuit current	24 A / 24 A			
MPPT number	2			
Max. number of input strings per MPPT	1			
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	42 - 58 V			
Max. charge / discharge power	3 kW	3.6 kW	5 kW	6 kW
Max. charge / discharge current	62.5 A	75 A	105 A	125 A
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	3 kW	3.6 kW	5kW	6kW
Max. apparent output power	3kVA	3.6kVA	5 kVA	6 kVA
Operation phase	1 L / N / PE			
Rated grid voltage	220 /230 V			
Rated grid frequency	50 / 60 Hz			
Rated grid output current	13.6 A / 13 A	16.4 A / 15.7 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	13.6 A / 13 A	16.4 A / 15.7 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 2 %			
Input AC (Grid side)				
Input voltage range	187 - 253 V			
Max. input current	20.5 A	24.6 A	32 A	40 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Output AC (Back-up)				
Rated output power	3 kW	3.6 kW	5 kW	6 kW
Max. apparent output power	4.2 kVA, 60 sec	5 kVA, 60 sec	7 kVA, 60 sec	8 kVA, 60 sec
Back-up switch time	< 10 ms			
Rated output voltage	1L / N / PE, 220 / 230 V			
Rated frequency	50 / 60 Hz			
Max. output current	19.1 A	22.7 A	31.8 A	36.4 A
THDv (@linear load)	< 2 %			
Efficiency				
Max. efficiency	>97.5%			
EU efficiency	>96.2%			
Protection				
DC reverse-polarity protection	Yes			
Ground fault monitoring	Yes			
Residual current monitoring	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes			
Protection class/Over voltage category	I/II			
General Data				
Dimensions (W x H x D)	405 x 480 x 205 mm			
Weight	24.2 kg			
Topology	High frequency isolation (for battery)			
Operating ambient temperature range	-25 ~ +60°C (13 ~140°F)			
Protection rating	IP66			
Cooling concept	Natural convection			
Max. operation altitude	4000 m [1]			
Grid connection standard	EN 50549-1, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21			
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	Quick connection plug			
Display screen	LED + APP			
Communication	RS485, CAN, WiFi, LAN			
Noise	< 35 dB			

[1] possible derating occurring

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