

Haier

H1PL-1J3/3.6/8/6K-EU

Single-phase Hybrid Inverter (LV)



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



Flexible



Harsh environment

Operable at an altitude of 4000 meters¹

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	5 kW	6 kW
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA
Operation phase	1L / 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