

# H1PL-1J3/3.6 /5/6K-EU

Haier

## Single-phase Hybrid Inverter (LV)



### Includes AFCI module, for added safety



#### Safe

Integrated AFCI function, actively detects arc faults in PV Array  
IP66 protection




#### High Yields

Integrated 2 MPPTs, higher tracking accuracy for each string  
MPPT start-up voltage only 90V and wide voltage range, more electricity generation



#### High Performance

Up to 16A of MPPT current input  
Supports 1.6 DC:AC ratio to connect more PV capacity  
Multiple working modes to meet different working scenarios

Model	H1PL-1J3K-EU	H1PL-1J3.6K-EU	H1PL-1J5K-EU	H1PL-1J6K-EU
Picture				
<b>Input DC (PV side)</b>				
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. input strings number per MPPT	1			
<b>Battery</b>				
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			
<b>Output AC (Grid side)</b>				
Rated output power	3 kW	3.6 kW	5 kW	6 kW
Max. apparent output power	3kVA	3.6kVA	5 kVA	6 kVA
Operation phase	1 / N / PE			
Rated grid voltage	220 V / 230 V			
Rated grid frequency	50 Hz / 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	15 A	18.2 A	25 A	30A
Power factor	> 0.99 ( 0.8 leading - 0.8 lagging )			
THDi	< 2 %			
<b>Input AC (Grid side)</b>				
Input voltage range	187 - 253 V			
Max. input current	20.5 A	24.6 A	34.1 A	40 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
<b>Output AC (Back-up)</b>				
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	1 / N / PE, 220 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Max. output current	21.8 A	26.2 A	36.5 A	40 A
THDv (@linear load)	< 2 %			
<b>Efficiency</b>				
Max. efficiency	> 97.5%			
EU efficiency	> 96.2%			
<b>Protection</b>				
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			
<b>General Data</b>				
Dimensions (W * H * D)	405 * 480 * 205 mm			
Weight	24.2 kg			
Topology	High frequency isolation ( for battery )			
Operating ambient temperature range	-25 ~ +60°C			
Protection rating	IP66			
Cooling concept	Natural convection			
Max. operation altitude	4000 m			
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			
<b>Features</b>				
DC connection	MC4 connector			
AC connection	Quick connection plug			
Display	LED + APP			
Communication	RS485, CAN, Wi-Fi, LAN; Optional: GPRS			

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