

Split-phase
Hybrid Inverter
HI-5~12K-DL



-  IP66 rated enclosure, designed for both indoor and outdoor deployment in harsh environments
-  Supports 7 intelligent working modes and automatically switch within 10ms.
-  Supports setting 9 periods, including three periods each for self-consumption, battery charge, and battery discharge.
-  Sustain 200% rated power overload for 10 seconds.
-  Peak shaving and valley filling to enhances grid stability.
-  110% continuous overload rating at sustained operation.



Technical Data	HI-5K-DL	HI-6K-DL	HI-8K-DL	HI-10K-DL	HI-12K-DL
Input DC (PV side)					
Max. PV access power	10kW	12kW	16kW	20kW	24kW
Max. PV input power	8kW	9.6kW	12.8kW	16kW	19.2kW
Max. PV input voltage	600V				
Nominal input voltage	360V				
MPPT working voltage range	80V-500V				
Number of independent MPPT / strings per MPPT	2/1	2/1	4/1	4/1	4/1
MPPT max. current	2*20A	2*20A	4*20A	4*20A	4*20A
Start-up voltage	100V				
Output/Input AC (Grid side)					
Nominal apparent power	5kW	6kW	8kW	10kW	12kW
Max. apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal voltage	120V/240V				
Nominal frequency	60Hz				
Rated current	20.8A	25A	33.3A	41.6A	50A
Max. current	22.8A	27.5A	36.6A	45.7A	55A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	2L+N+PE				
Max. AC current from utility grid	100A				
Output AC (Back-up)					
Nominal output power	5kW	6kW	8kW	10kW	12kW
Max. output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal output voltage	120V/240V				
Nominal ouput frequency	60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery					
Battery type	Li-ion/Lead-acid				
Battery voltage range	40V-60V				
Max. charging/discharging current	120A	135A	190A	210A	240A
Charging strategy for Li-ion battery	Self-adaption to BMS				
Charging strategy for Lead-acid battery	Three-stage				
Efficiency					
Max. MPPT efficiency	99.9%				
Europe efficiency	97.5%				
Max. battery to load efficiency	94.5%				
Protection					
Anti islanding protection	Yes				
Insulation impedance protection	Yes				
RCD detection	Yes				
PV reverse polarity protection	Yes				
Output over voltage protection	Yes				
Output over current protection	Yes				
General Data					
Dimensions(L/W/H)in mm	425/290/660				
Weight	40kg				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Smart cooling				
IP Class	IP 66				
Maximum altitude	4000m				
Self-Consumption night	<3w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/4G/USB/CAN/RS485				
Standards	UL 1741,CSA C22.2,UL 1699B, UL 1741SB,IEEE1547:2018,RULE21,FCC Part 15 Class B				