

Single-phase Hybrid Inverter

HI-3~12K-SL3



Comes with GEN port, supporting diesel generators, smart loads and AC coupling systems.



4.3" color touch screen.



Integrated Zero-export control function.



Works with lead-acid & lithium-ion batteries; compatible with most lithium battery brands.



Allows PV oversizing up to 200% of rated inverter power.



Low startup voltage and wide operating voltage range.



Technical Data	HI-3K-SL3-24	HI-3K-SL3	HI-5K-SL3	HI-6K-SL3	HI-8K-SL3	HI-10K-SL3	HI-12K-SL3
Input DC (PV side)							
Max. PV access power	7.5kW	7.5kW	12.5kW	15kW	20kW	25kW	30kW
Max. PV input power	6kW	6kW	10kW	12kW	16kW	20kW	24kW
Max. PV input voltage	550V						
Nominal input voltage	360V						
MPPT working voltage range	80V-500V						
Number of independent MPPT/strings per MPPT	1/1	1/1	2/1	2/1	2/2	2/2	2/2
MPPT max. current	20A	20A	20A/20A	20A/20A	40A/40A	40A/40A	40A/40A
Start-up voltage	120V						
Output/Input AC (Grid side)							
Nominal power	3kW	3kW	5kW	6kW	8kW	10kW	12kW
Max. apparent power	3.3kVA	3.3kVA	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal voltage	220V/230V						
Nominal frequency	50Hz/60Hz						
Rated current	13.6A/13A	13.6A/13A	22.7A/21.7A	27.2A/26A	36.3A/34.7A	45.4A/43.4A	54.5A/52.2A
Max. current	15A	15A	25A	30A	40A	50A	60A
Power factor	-0.8-+0.8(adjustable)						
THDi	<3%(Nominal Output)						
Grid system pattern	L+N+PE						
Max. AC current from utility grid	50A	50A	50A	50A	90A	90A	90A
Output AC (Back-up)							
Nominal output power	3kW	3kW	5kW	6kW	8kW	10kW	12kW
Max. output apparent power	3.3kVA	3.3kVA	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal output voltage	220V/230V						
Nominal output frequency	50Hz/60Hz						
Output THDV	<3%						
Automatic switch time	<10ms						
Battery							
Battery type	Li-ion/Lead-acid						
Battery voltage range	20V-30V	40V-60V	40V-60V	40V-60V	40V-60V	40V-60V	40V-60V
Max. charging/discharging current	140A	75A	120A	140A	180A	200A	240A
Charging strategy for Li-ion battery	Self-adaption to BMS						
Efficiency							
Max. MPPT efficiency	99.9%						
Europe efficiency	97.5%						
Max. battery to load efficiency	94%						
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	382/260/455				382/260/470		
Weight	23kg				30kg		
Operation temperature range	-25°C~+60°C						
Heat dissipation mode	Natural				Smart cooling		
IP Class	IP 66						
Maximum altitude	4000m						
Self consumption (night)	<5W						
Topology	Transformerless						
Features							
LCD display	Yes						
Communication interface	Built-in Wi-Fi/USB/CAN/RS485						
Standards	IEC 62109-1/IEC 62109-2/EN IEC 61000-6-1/EN IEC 61000-6-3/CEI 0-21 VDE AR 4105/VDE V 0124-100/NC RfG/PSE/PTPIREE/EN50549/NRS 097						