

Solar Inverter

Guard Series

25KW/29KW/30KW

- Supports PV array input up to 200% of rated inverter power for flexible solar system configuration.
- IP66-rated enclosure enables indoor and outdoor installation in harsh environments.
- Supports battery charge and discharge currents up to 600A for high-power energy applications.
- Equipped with GEN port for diesel generator connection, smart loads, and AC coupling.
- Supports 7 intelligent working modes with automatic switching within 10ms.
- Optional 4.3"/7" color touch screen provides convenient system operation.

MODEL	HI-25K-TL	HI-29K-TL	HI-30K-TL
Input DC (PV side)			
Max. PV access power	62.5kW	72.5kW	75kW
Max. PV input power	50kW	58kW	60kW
Max. PV input voltage	1000V		
Nominal input voltage	600V		
MPPT working voltage range	180V-850V		
Number of independent MPPT / strings per MPPT	3/2		
MPPT max.current	3*40A		
Start-up voltage	200V		
Output/Input AC (Grid side)			
Nominal apparent power	25kW	29kW	30kW
Max. apparent power	28kVA	32kVA	33kVA
Nominal voltage	380V/400V		
Nominal frequency	50Hz/60Hz		
Rated current	38A/36.2A	41A/39A	45A/48A
Max. current	50A	50A	50A
Power factor	-0.8~+0.8(adjustable)		
THDi	<3%(Nominal Output)		
Grid system pattern	3L+N+PE		
Max.AC current from utility grid	100A		
Output AC (Back-up)			
Nominal output apparent power	25kW	29kW	30kW
Max.output apparent power	28kVA	32kVA	33kVA
Nominal output voltage	380V/400V		
Nominal output frequency	50Hz/60Hz		
Output THDV	3%		
Automatic switch time	<10ms		
Battery Input Data			
Battery type	Li-Ion/Lead-acid		
Battery voltage range	42V-59V		
Max. charging/discharging current	500A	600A	600A
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	94.0%		
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	525/305/870		
Weight	60kg		
Operation temperature range	-25℃~+60℃		
Heat dissipation mode	Smart cooling		
IP Class	IP66		
Maximum altitude	4000m		
Self-Consumption night	<3w		
Topology	Transformerless		
Protection			
LCD display	YES		
Communication interface	WiFi/4G/USB/CAN/RS485		
Standards	IEC 62109-1/IEC 62109-2/EN IEC 61000-6-1/EN IEC 61000-6-3/CEI 0-27 VDE AR 4105/VDE V 0124-100/NC RfG/PSE/PTPiREE/EN50549/NRS 097		

Product specifications are subject to change without notice.