

Technical Data		HI-5K-TL	HI-6K-TL	HI-8K-TL	HI-10K-TL	HI-12K-TL	HI-15K-TL	HI-20K-TL
Input DC (PV side)								
Max. PV access power	10kW	12kW	16kW	20kW	24kW	30kW	40kW	
Max. PV input power	8kW	10kW	13kW	16kW	20kW	24kW	32kW	
Max. PV input voltage					1000V			
Nominal input voltage					600V			
MPPT working voltage range					180V-850V			
Number of independent MPPT / strings per MPPT	2/1					2/2		
MPPT max. current	2*20A					2*36A		
Start-up voltage					200V			
Output/Input AC (Grid side)								
Nominal power	5kW	6kW	8kW	10kW	12kW	15kW	20kW	
Max. apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	22kVA	
Nominal voltage					380V/400V			
Nominal frequency					50Hz/60Hz			
Rated current	7.5A/7.2A	9A/8.7A	12.2A/11.6A	15.2A/14.5A	18.2A/17.4A	22.7A/21.7A	30.3A/29A	
Max. current	8.3A	9.9A	13.5A	16.8A	20A	25A	33A	
Power factor					-0.8~+0.8(adjustable)			
THDi					<3%(Nominal Output)			
Grid system pattern					3L+N+PE			
Max.ACcurrentfromutility grid					60A			
Output AC (Back-up)								
Nominal output power	5kW	6kW	8kW	10kW	12kW	15kW	20kW	
Max. output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	22kVA	
Nominal output voltage					380V/400V			
Nominal output frequency					50Hz/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	140A	190A	210A	240A	300A	400A	
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					Yes			
protection 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					425/290/710			
Weight					38kg	41kg		
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	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000, CEI 0-21, VDE AR 4105, VDE V 0124-100, NC RfG, PSE, PTRIEEE, EN 50549, NRS 097							