

Technical Data	HI-80K-TH	HI-90K-TH	HI-100K-TH	HI-110K-TH	HI-120K-TH
PV String Input Data					
Max. DC input power	120kW	140kW	150kW	160kW	180kW
Max. DC input voltage	1000V				
Nominal input voltage	600V				
MPPT working voltage range	180V-1000V				
Number of independent MPPT/strings per MPPT	8/3				
MPPT max. current	8*45A				
Start-up voltage	200V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	80KW	90kW	100kW	100kW	120kW
Max. output apparent power	88kVA	100kVA	110kVA	120kVA	132kVA
Nominal output voltage	400V±20%				
Nominal output frequency	50Hz/60Hz				
Rated output current	115A	130A	144A	159A	173A
Max. output current	128A	145A	160A	174A	192A
Power factor	-0.8-+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	3L+N+PE				
Max.apparent power from utility grid	80KW*2	90KW*2	100KW*2	110KW*2	120KW*2
Max.AC current from utility grid	128A*2	145A*2	160A*2	174A*2	192A*2
Back-up Output Data (UPS)					
Nominal output apparent power	80kW	90kW	100kW	110kW	120kW
Max. output apparent power	88kVA	99kVA	110kVA	120kVA	120kVA
Nominal output voltage	400V± 20%				
Nominal output frequency	50Hz/60Hz				
Output THDV	3%				
Automatic switch time	<20ms				
Battery Input Data					
Battery type	Li-Ion				
Battery voltage range	150V-800V				
Max. charging/discharging current	100A*2				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
Efficiency					
Max. efficiency	98%				
Europe efficiency	97.5%				
Max. battery to load efficiency	98%				
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	1140/367/820				
Weight	120kg				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Smart cooling				
IP Class	IP 66				
Maximum altitude	4000m				
Self-Consumption night	<20w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/GPRS/RS485				
Standards	IEC 62109-1/IEC 62109-2/EN IEC 61000-6-1/EN IEC 6100-6-3/VDE AR4105/VDE V 0124-100/NC RfG/PSE/PTPIREE/EN 50549-1/NRS 097				