

Technical Data	HI-29K-TH	HI-30K-TH	HI-40K-TH	HI-50K-TH	HI-60K-TH
PV String Input Data					
Max. DC input power	45kW	45kW	60kW	75kW	90kW
Max. DC input voltage	1100V				
Nominal input voltage	600V				
MPPT working voltage range	180V-1000V				
Number of independent MPPT/strings per MPPT	3/3	3/3	4/3	4/3	4/3
MPPT max. current	45A*3	45A*3	45A*4	45A*4	45A*4
Start-up voltage	200V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	29kW	30kW	40kW	50kW	60kW
Max. output apparent power	29kVA	33kVA	44kVA	55kVA	66kVA
Nominal output voltage	400V±20%				
Nominal output frequency	50Hz, 60Hz/±5Hz				
Rated output current	42A	43.5A	58A	72.5A	87A
Max. output current	50A	50A	64A	80A	95A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	3L+N+PE				
Max.apparent power from utility grid	29kW*2	30kW*2	40kW*2	50kW*2	60kW*2
Max.AC current from utility grid	50A*2	50A*2	64A*2	80A*2	95A*2
Back-up Output Data (UPS)					
Nominal output apparent power	29kW	30kW	40kW	50kW	60kW
Max output apparent power	29kVA	33kVA	44kVA	55kVA	66kVA
Nominal output voltage	400V±20%				
Nominal output frequency	50Hz/60Hz±0.2%				
Output THDV	<3%				
Automatic switch time	<20ms				
Battery Input Data					
Battery type	Li-Ion				
Battery voltage range	150V-800V				
Max. charging/discharging current	50A*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	650/306/655				
Weight	50kg				
Operation temperature range	-30°C~+60°C				
Heat dissipation mode	Smart cooling				
IP Class	IP 66				
Maximum altitude	3000m				
Self-Consumption night	<5w				
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 61000-6-3/VDE AR 4105/VDE V 0124-100/NC RfG/PSE/PTPIREE/EN 50549-1/NRS 097				