

Thre e-phase
Hybrid Inverter
HI-29~60K-TH



- IP66 rated enclosure, designed for both indoor and outdoor deployment in harsh environments.
- Color touch screen (4.3/7" optional).
- Supports 7 intelligent working modes and automatically switch within 10ms.
- Supports 100% 3-phase unbalanced output on both ports (BACKUP & GRID).
- Peak shaving and valley filling to enhances grid stability.
- Low startup voltage threshold, wide operating voltage range.



Technical Data	HI-29K-TH	HI-30K-TH	HI-40K-TH	HI-50K-TH	HI-60K-TH
Input DC (PV side)					
Max. PV access power	60kW	60kW	80kW	100kW	120kW
Max. PV input power	48kW	48kW	64kW	80kW	96kW
Max. PV input voltage	1000V				
Nominal input voltage	600V				
MPPT working voltage range	180V-850V				
Number of independent					
MPPT/strings per MPPT	3/3	3/3	4/3	4/3	4/3
MPPT max. current	3*45A	3*45A	4*45A	4*45A	4*45A
Start-up voltage	200V				
Output/Input AC (Grid side)					
Nominal power	29kW	30kW	40kW	50kW	60kW
Max. apparent power	29kVA	33kVA	44kVA	55kVA	66kVA
Nominal voltage	380V/400V				
Nominal frequency	50Hz/60Hz				
Rated current					
Max. current	44A/42A	45.4A/43.4A	60A/58A	75.7A/72.4A	90A/87A
Power factor	48.4A	50A	66A	84A	99A
THDi	-0.8~+0.8(adjustable)				
Grid system pattern	<3%(Nominal Output)				
Max. AC current from utility grid	3L+N+PE				
	200A				
Output AC (Back-up)					
Nominal output power	29kW	30kW	40kW	50kW	60kW
Max. output apparent power	29kVA	33kVA	44kVA	55kVA	66kVA
Nominal output voltage	380V/400V				
Nominal ouput frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery					
Battery type	Li-ion				
Battery voltage range	200V-800V				
Max. charging/discharging curren t	2*50A/2*50A				
Chargingstrategy for Li-ion battery	Self-adaption to BMS				
Efficiency					
Max. MPPT efficiency	99.9%				
Europe efficiency	97.5%				
Max. battery to load efficiency	98%				
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	Yes				
protection	Yes				
General Data					
Dimensions(L/W/H)in mm	680/342/708				
Weight	73kg				
Operation temperature range	-30°C~+60°C				
Heat dissipation mode	Smart cooling				
IP Class	IP 66				
Maximum altitude	4000m				
Self consumption (night)	<5w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/GPRS/RS485				
Standards	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000, VDE AR 4105, VDE V 0124-100, NC RfG, PSE, PTRIEEE, EN 50549-1, NRS 097				