Three-Phase High-Voltage Hybrid Inverter

29KW/30KW/40KW/50KW/60KW



Main Features

1〉 Designed with an IP66 protection rating, making it suitable for both indoor and outdoor installation.
2〉 Combines on-grid, energy storage and off-grid functions in one inverter to meet different power application requirements.
3〉 Equipped with a wide DC operating voltage range and four MPPT channels to support PV arrays with different installation angles and orientations.
4〉 Allows the utility grid and diesel generator to be connected simultaneously for more flexible power supply management.
5〉 Offers up to seven intelligent operating modes and supports remote monitoring through both app and web platforms.
6〉 Compatible with both lead-acid and lithium batteries, with communication support available for specified battery brands.

MODEL	29KW	30KW	40KW	50KW	60KW
PV String Input Data					
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				
AC Output/Input Data(On-Grid)					
Nominal apparent power	29KW	30KW	40KW	50KW	60KW
Max.apparent power	29KVA	33KVA	44KVA	55KVA	66KVA
Nominal voltage	380V/400V				
Nominal frequency	50Hz/60Hz				
Rated current	44A/42A	45.4A/43.4A	60A/58A	75.7A/72.4A	90A/87A
Max.current	48.4A	50A	66A	84A	99A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	3L+N+PE				
Max.AC current from utility grid	200A				
Back-up Output Data(UPS)					
Nominal output power	29KW	30KW	40KW	50KW	60KW
Max.Output apparent power	29KVA	33KVA	44KVA	55KVA	66KVA
Nominal output voltage	380V/400V				
Nominal output frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<20ms				
Battery Input Data					
Battery type	Li-ion				
Battery voltage range	200V-800V				
Max.charging/discharging current	2*50A/2*50A				
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	98.0%				
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					
Dimension(L/W/H)	680/342/708				
Weight	72kg				
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 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				

Product specifications are subject to change without notice.