



100

100% unbalanced output, each phase



AC couple to retrofit existing solar system

16

Max. 16pcs parallel for on-grid and off-grid operation Support multiple batteries parallel

50

Max. charging/discharging current of 50A



High voltage battery, higher efficiency

Battery Type	Lead-acid or Lithium-Ion				
Battery Voltage Range (V)	160-700				
Max. Charging Current (A)	30	37			
Max. Discharging Current (A)	30	37			
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. DC Input Power (W)	6500	7800	10400	13000	15600
Max. DC Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated DC Input Voltage (V)	600				
Max. Operating PV Input Current (A)	20+20				26+
Max. Input Short-Circuit Current (A)	30+30				39+
No.of MPPT Trackers/ No.of String Per MPPT Tracker	2/1+1				2/2
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200
Rated AC Input/Output Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2
Max. Three-phase Unbalanced Output Current (A)	13	13	18	22	25
Max. Continuous AC Passthrough (grid to load) (A)	40				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz				
Grid Connection Form	3L+N+PE				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Component of Grid	<0.5% In				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Leakage Protection, Overvoltage Load Drop Protection, Residual Current (RCD) Protection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	WIFI, RS485, CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise	≤55 dB(A)				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet size (mm)	408W×638H×237D (Excluding Connectors)				
Weight (kg)	30.5				
Type of Cooling	Natural Cooling		Intelligent Air Cooling		