



100

100% unbalanced output, each phase Max. output up to 50% rated power



AC couple to retrofit existing solar system

16

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

240

Max. charging/discharging current of 240A

48

48V low voltage battery, transformer isolation design

Battery Voltage Range (V)	40-60		
Max. Charging Current (A)	120	150	190
Max. Discharging Current (A)	120	150	190
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
Max. DC Input Voltage (V)	800		
Start-up Voltage (V)	160		
MPPT Voltage Range (V)	350-650		
Rated DC Input Voltage (V)	550		
Max. Operating PV Input Current (A)	13+13		
Max. Input Short-Circuit Current (A)	17+17		
No.of MPPT Trackers/ No.of String Per MPPT Tracker	2/1+1		
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	5000	6000	8000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800
Rated AC Input/Output Current (A)	7.6/7.2	9.1/8.7	12.1/11.6
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8
Max. Three-phase Unbalanced Output Current (A)	11.4/10.9	13.6/13	18.2/17.4
Max. Continuous AC Passthrough (grid to load) (A)	45		
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, 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 (W H D) mm	422×658×254 (Excluding Connectors)		
Weight (kg)	38		
Type of Cooling	Intelligent Air Cooling		
	5 Years/10 Years		