



Ease Series

(IP21, 2 Year Warranty)



Smart Load Management

By intelligently managing power distribution, the dual AC output allows you to ensuring the primary loads remain powered in the event of a grid outage, ensuring that critical loads are always powered, while optimizing overall energy usage and backup time.



Powerful with Enhanced Safety

Support up to 300% surge power with built-in power optimizer, which effectively drives heavy home loads and ensuring reliable performance for demanding appliances, the Built-in Transformer Isolation also brings enhanced safety.



Higher Solar Yield

Wider MPPT operation voltage range with more power generation, start earlier and stop later. Super high PV to Inverter efficiency plus bigger maximum PV input power increase the cost performance significantly.



Work without a Battery

When connected with PV, the hybrid inverter supports AC output without a battery, which lowers the initial cost of the solar power system and saves money right away, a battery can be added in later phase when required.

Hybrid Solar Inverter

1.2KW	3.6KW	5KW	5KW	6.5KW
12V	24V	24V	48V	48V



GENERAL SPECIFICATIONS		MCG-1220-IVT	MCG-3640-IVT	MCG-5040-IVT	MCG-5080-IVT	MCG-6580-IVT
Rated Capacity		1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 W	6250 VA / 5000 W	8120 VA / 6500 W
PV Input	PV Maximum Input Power	1200 Wp	6500 Wp	9000 Wp	6500 Wp	9000 Wp
	Max. PV Open Circuit Voltage	125 VDC	500 VDC	500 VDC	500 VDC	500 VDC
	MPPT Range Operating Voltage	20 ~ 100 VDC	40 ~ 450 VDC	40 ~ 450 VDC	120 ~ 450 VDC	60 ~ 450 VDC
	Max. Solar Input Current	14 A	18 A	28 A	18 A	28 A
Battery	Battery Type	Lithium / Lead-acid				
	Nominal Battery voltage	12 V (1*12 V)	24 V(2*12 V)	24 V (2*12 V)	48 V(4*12 V)	
AC Input	Nominal voltage	208 / 220 / 230 / 240; L + N + PE				
	Voltage Range	90 ~ 280 ±3 (Normal Mode); 170 ~ 280 ±3 (UPS Mode)				
	Frequency	50 / 60 Hz (Auto Adaptive)				
AC Output	Rated Output Power	1500 VA /1200 W	4500 VA / 3600 W	6250 VA / 5000 W	6250 VA / 5000 W	8120 VA / 6500 W
	Second Output Capacity	1380 VA/1200 W	2300 VA / 2300 W	4150 VA / 4150 W	4150 VA / 4150 W	4150 VA / 4150 W
	Surge Power	3600 VA	11000 VA	15000 VA	15000 VA	16500 VA
	Parallel	/	/	/	9 Unit (1P & 3P)	/
	Waveform	Pure Sine Wave				
	Nominal Voltage	208 / 220 / 230 / 240 VAC				
	Feed-in Grid Voltage Range	195 ~ 253 VAC				
	Nominal Frequency	50 / 60 Hz				
	Feed-in Grid Frequency Range	49 ~ 51 Hz ±0.1% / 59 ~ 61 ±0.1%				
	Transfer Time	10 ms UPS mode, 10 ms Appliance mode				
	Peak Efficiency (PV to INV)	94.00%	96.00%	96.00%	96.50%	97.00%
	Peak Efficiency (Battery to INV)	90.00%	92.00%	92.50%	93.50%	94.50%
	Overload Protection	10min@102%< Load<120% 1min@120%< Load <150% 10s@150%< Load<200% 200ms@Load>200%	1min@102%< Load <110% 10s@110%< Load <130% 3s@130%< Load <150% 200ms@Load>150%	1min@102%< Load <110% 10s@110%<Load <130% 3s@130%<Load <150% 200ms@Load>150%	1min@102%< Load <120% 10s@110%<Load <130% 3s@130%<Load <150% 200ms@Load>150%	10min@102%< Load <120% 1min@120%< Load <150% 10s@150%< Load <200% 5s@Load>200%
	Admissible Power Factor	-0.8 ~ +0.8				
Charger	Charging Voltage	FV Mode: 13.5 V (Settable: 12 ~ 14.9 V) CV Mode: 14.1 V (Settable: 12 ~ 15 V)	FV Mode: 27 V (Settable: 26.6 ~ 27.8 V) CV Mode: 28.2 V (Settable: 28 ~ 29 V)	FV Mode: 27 V (Settable: 26.6 ~ 27.8 V) CV Mode: 28.2 V (Settable: 28 ~ 29 V)	FV Mode: 54 V (Settable: 53.2 ~ 55.6 V) CV Mode: 56.4 V (Settable: 56 ~ 58 V)	
	Battery Over Voltage	15 V	30.5 V	30.5 V	61 V	
	Charging Current	2~ 60 A	2~ 100 A	2 ~ 160 A	2 ~ 80 A	2 ~ 120 A
	Max.AC Charge Current	60 A	100 A	160 A	80 A	120 A
	Max PV Charge Current	60 A	100 A	160 A	80 A	120 A
	Max. Charge Current (PV+AC)	60 A	100 A	160 A	80 A	120 A
Physical	Built-in Transfer	Yes	Yes	Yes	Yes	Yes
	Built-in Power Booster	Yes	Yes	Yes	Yes	Yes
	Dimensions(D*W*H, mm)	91 * 236 * 347mm	112 * 283 * 448.9mm	394 * 326 * 110mm	119 * 338 * 539.1mm	119 * 338 * 539.1mm
	Net Weight (Kg)	5.2kg	8.6kg	11.5kg	12.5kg	13.56kg
	Communication Interface	RS485 / RS232	RS485 / RS232 / USB / Dry Contact			
Environment	Ingress Protection	IP21				
	Operating Temperature Range	-10 °C - 50 °C				
	Storage Temperature	-15 °C - 60 °C				
	Humidity	5% ~ 95% (Non-condensing)				

* Product specifications are subject to change without further notice.