



5000W ~ 6000W

HYBRID SOLAR INVERTER

Energy
Independence

Continuous
Power Supply

Flexible
Installation

FEATURES

- Pure sine wave solar inverter.
- Output power factor 0.99.
- Parallel operation up to 10 units.
- High PV input voltage range.
- Battery independent design.
- Built-in 100A MPPT solar charger and anti-dusk kit for harsh environment.
- Battery equalization function to optimize battery performance and extend lifecycle.

INPUT (PV DC)	MGYSP 5000W		MGYSP 6000W
Max. PV array power(W)	8000 (4000/4000)		
Rated PV input voltage(V)	320		
Number of independent MPPT inputs	2		
PV input voltage range(V)	100~480		
MPPT voltage range(V)	120~385		
Start-up voltage(V)	100		
Max. PV input current per MPPT(A)	17/17		
Max. PV short-circuit current input per MPPT(A)	25/25		
Battery			
Compatible battery type	Lithium-ion/Lead-Acid		
Rated battery voltage(V)	48		
Battery voltage range(V)	38.4~60		
Max. charging/discharging current(A)	110	140	
Max. discharging/discharging power(W)	5000	6000	
Recomand capacity of battery per inverter	>200AH	>200AH	
Force wake up battery from PV function	YES	YES	
Force wake up battery from Grid function	YES	YES	
Grid			
Rated AC voltage(V)	230		
Rated AC frequency(Hz)	50/60		
Rated AC output current(A)	22	26.5	
Rated AC output power(W)	5000	6000	
Max. AC intput current(A)	35	39.5	
Max. AC intput power(W)	9000	9000	
PF	0.99	0.99	
THDI	<5%	<5%	
Rated AC current of BYPASS relays(A)	40	40	
UPS			
Rated output power(W)	5000	6000	
Rated output voltage(V)	230	230	
Rated output current(A)	22	26.5	
Rated output frequency(Hz)	50/60		
Surge power, duration	2Pn, <2S		
Switching time	<15ms@Single/ <30ms@Parallel		
Wave form	Sine wave		
THDV	0.03		
Efficiency			
Max. MPPT efficiency	0.99		
Max. efficiency	0.93		
EU efficiency	/		
Max. charging efficiency	0.93		
Max. discharging efficiency	0.93		
Protection			
Over current/voltage protection	YES		
AC Short-circuit current protection	YES		
Grid monitoring	YES		
AC Surge protection Type III	YES		
Battery reverse polarity protection	YES		
General			
Dimensions(W*H*D)	303*505*135mm/11.9*19.9*5.3inch		
Weight	14.5kg/32lbs		
Ingress protection rating	IP20		
Operating environment temperature range	0~50°C		
Storage temperature range	-15~60°C		
Relative humidity	5%~95%		
Display & Communication interface	LCD+LED, RS485/Wi-Fi/CAN		
Warranty	2 Years		
Cooling method	FAN		
Topology	Transformer-less		
Altitude	<2000m		
Noise emission(typical)	<50dB		
Standards & Certification	IEC 62109-1, IEC 62109-2, IEC 61000		

Product specifications are subject to change without prior notice.