

GMSF3-5.5KWE

Energy Storage Inverter Series



Single Phase | 3-5.5KW | Off-Grid

- Built-in MPPT solar charge controller
- Compatible with power voltage or generator power
- Parallel operation with up to 6 units



Overload & short
circuit protection



Configurable
charging current



Smart design for optimized
battery performance



Residential Off-grid Inverter with MPPT

Input	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
Input sources	L+N+PE			
Rated input voltage	208/220/230/240VAC			
Voltage range	154-264VAC±3V (APP Mode) 185-264VAC±3V (UPS Mode)			
Frequency	50Hz/60Hz (Auto Adaptive)			
Output	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
Rated power	3000W	3500W	5000W	5500W
Output voltage	208/220/230/240VAC ±5%			
Output frequency	50Hz/60Hz ±0.1%			
Waveform	Pure Sine Wave			
Transfer time (adjustable)	Computers(UPS Mode)10ms, Appliance(APP Mode)20ms			
Peak power	6000VA	7000VA	10000VA	11000VA
Over load ability	Battery Mode: 1min@102%~110%Load, 10s@110%~130%Load, 3s@130%~150%Load, 200ms@>150%Load			
Peak efficiency (battery Mode)	>94%			
Battery	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
Battery voltage	24Vdc	24Vdc	48Vdc	48Vdc
Constant charging voltage	28.2Vdc	28.2Vdc	56.4Vdc	56.4Vdc
Floate charging voltage	27Vdc	27Vdc	54Vdc	54Vdc
Charges	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
PV charging mode	MPPT			
Max PV input power	1500W	1500W	5500W	5500W
MPPT tracking range	30-145Vdc	30-145Vdc	120-500Vdc	120-500Vdc
Best voltage	30-115V	30-115V	300-400V	300-400V
Max PV input voltage	150Vdc	145Vdc	500Vdc	500Vdc
Max PV charging current	60A	60A	100A	100A
Max AC charging current	60A	60A	100A	100A
Max charging current	120A	120A	100A	100A
Display	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
LCD display	Display running mode/loads/input/output etc.			
Interface	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
RS232	5Pin/pitch2.0mm, baud rate 2400			
Communication port	2×5Pin / pitch2.54mm, Lithium lattery BMS communication card, wificard, drycontact			
Parallel connect interface	Without parallel connect		Without parallel (optional)	
Environment	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
Operating temperature	0-40°C			
Humidity	20%-95% (non-condensing)			
Storage temperature	-15 - 60°C			
Altitude	Altiude not over 1000m, derating over 1000m, max 4000m, refer to IEC62040			
Noise	≤50db			
Dimension	GMSF3KWE	GMSF3.5KWE	GMSF5KWE	GMSF5.5KWE
Net weight	8.44kg			
Gross weight	9.79kg			
Product size	477×318×123mm			
Package size	552×385×193mm			

