

# GMSF1-6KWE

## Energy Storage Inverter Series



### Single Phase | 2/4KW | Off-Grid

- Adaptive to strong power grid
- AC power priority, battery power priority can be set
- Battery voltage and charging current can be set



Meet different  
types of batteries



Battery under-voltage &  
over-voltage protection



High temperature  
protection



## Residential Off-grid Inverter

Product Model	GMSF1KWE -C1	GMSF1KWE -C2	GMSF2KWE -C2	GMSF2KWE -C4	GMSF3KWE -C2	GMSF3KWE -C4	GMSF4KWE -C4	GMSF5KWE -C4	GMSF6KWE -C4	
Rated Power	1000W		2000W		3000W		4000W	5000W	6000W	
Battery Voltage	12V	24V	24V	48V	24V	48V	48V			
Size (W*D*H mm)			540×265×180				580×340×210			
Package Size (W*D*H mm)			580×310×220				620×390×270			
Net Weight (kg)	10.5		15		17.5		20	24	25	
Gross Weight (kg)	13		17.5		20		23	27	28	
<b>Input</b>										
Phase	L+N+G									
AC Input Range	220V: 170-275VAC									
Frequency	45Hz~55Hz									
<b>Output</b>										
Voltage	Inverter mode: 220VAC±5% ; AC mode: 220VAC±10% ;									
Frequency (AC mode)	Auto-detect									
Frequency (inverter mode)	50Hz±1%									
Over Load Capacity (AC mode)	(100%~110%: 10min, 110%~130%: 1min, >130%: 1s)									
Over Load Capacity (inverter mode)	(100%~110%: 30s, 110%~130%: 10s, >130%: 1s)									
Crest Ratio	3:1 max									
Transfer Time	<10ms (typical loads)									
Waveform	Pure sine wave									
Efficiency	>85% (80% resistive loads)									
Protection Function	Battery overvoltage protection, battery undervoltage protection, overload protection, short circuit protection, overtemperature protection, etc.									
Cooling Method	Fans cooling									
<b>Environmental Conditions</b>										
Operation Temperature	0°C~40°C(battery life decreases at ambient temperatures above 25degrees Celsius)									
Operation Humidity	<95% without condensing									
Operation Altitude	<1000m (with increase of 100m, it will reduce output of 1%, max 5000m)									
Noise	<58dB (distance to machine 1m)									
<b>Management</b>										
Display	LCD+LED									
Communication Interface	RS232 (optional)									



## Residential Off-grid Inverter

Product Model	GMSF1KWE -U1	GMSF1KWE -U2	GMSF2KWE -U2	GMSF2KWE -U4	GMSF3KWE -U2	GMSF3KWE -U4
Rated Power	1000W		2000W		3000W	
Battery Voltage	12V	24V	24V	48V	24V	48V
Size (W*D*H mm)	540×265×180					
Package Size (W*D*H mm)	580×310×220					
Net Weight (kg)	10.5		15		17.5	
Gross Weight (kg)	13		17.5		20	
<b>Input</b>						
Phase	L+N+G					
AC Input Range	110V: 85-138VAC					
Frequency	55Hz~65Hz					
<b>Output</b>						
Voltage	Inverter mode: 110VAC±5% ; AC mode: 110VAC±10% ;					
Frequency (AC mode)	Auto-detect					
Frequency (inverter mode)	60Hz±1%					
Over Load Capacity (AC mode)	(100%~110%: 10min, 110%~130%: 1min, >130%: 1s)					
Over Load Capacity (inverter mode)	(100%~110%: 30s, 110%~130%: 10s, >130%: 1s)					
Crest Ratio	3:1 max					
Transfer Time	<10ms (typical loads)					
Waveform	Pure sine wave					
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Protection Function	Battery overvoltage protection, battery undervoltage protection, overload protection, short circuit protection, overtemperature protection, etc.					
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## Residential Off-grid Inverter

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Rated Power	1000W		2000W		3000W	
Battery Voltage	12V	24V	24V	48V	24V	48V
Size (W*D*H mm)	540×265×180					
Package Size (W*D*H mm)	580×310×220					
Net Weight (kg)	10.5		15		17.5	
Gross Weight (kg)	13		17.5		20	
<b>Input</b>						
Phase	L+N+G					
AC Input Range	120V: 85-138VAC					
Frequency	55Hz~65Hz					
<b>Output</b>						
Voltage	Inverter mode: 120VAC±5% ; AC mode: 120VAC±10% ;					
Frequency (AC mode)	Auto-detect					
Frequency (inverter mode)	60Hz±1%					
Over Load Capacity (AC mode)	(100%~110%: 10min, 110%~130%: 1min, >130%: 1s)					
Over Load Capacity (inverter mode)	(100%~110%: 30s, 110%~130%: 10s, >130%: 1s)					
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