

RIX-GBMH Series

High frequency solar inverter

Product Description

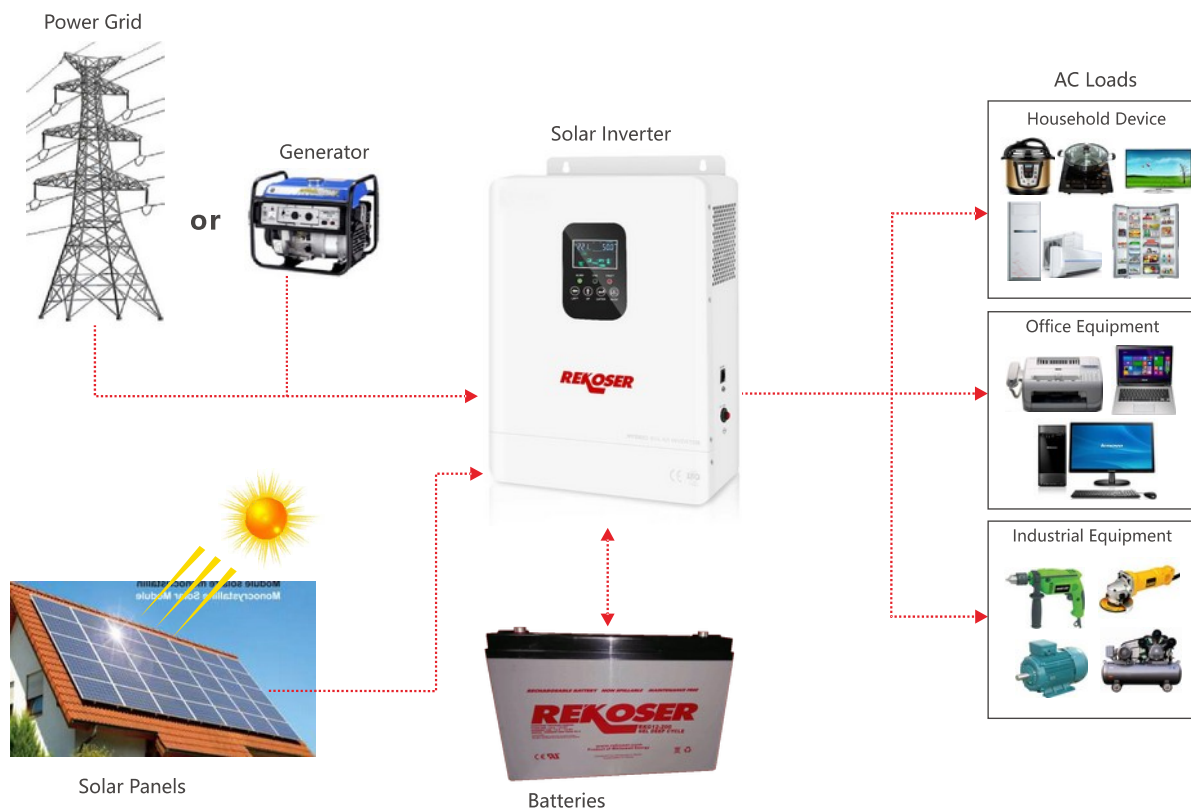
- Adopt high-frequency design, high power density, small size, high efficiency and low no-load loss;
- Built-in MPPT controller, integrated solar charging and mains complement design;
- Pure sine wave output, adaptable to any types of loads;
- Battery charge and discharge voltage parameters adjustable, suitable for different types of batteries;
- AC charge current adjustable, battery capacity configuration more flexible;
- Three working modes adjustable: AC first, battery first, PV first;
- Output voltage/frequency adjustable function, adapt to different grid environment;
- Extra wide voltage and frequency input range, support mains or generator;
- LED+LCD display, easy operation and data checking, can set each function and data directly;
- Multi-protection function (overload, over temperature, short circuit protection and so on);
- RS485 communication port/APP optional.

Application Area

- Office and public facilities, household system, network transmission equipment, manufacturing, control system, solar energy system, oil field, drilling field operation, etc.
- Provide stable, reliable and safe solutions for families, islands, ships and other small photovoltaic power systems



System Application Diagram



Technical Parameters

Model: RIX-GBMH-		12H10	24H15	24H20	24H32L	24H32	48H50L	48H50	48H72	48H80	
Rated Power		1000W	1500W	2000W	3200W	3200W	5000W	5000W	7200W	8000W	
Peak power (20mS)		3000VA	4.5KVA	6KVA	9.6KVA	9.6KVA	15KVA	15KVA	21.6KVA	24KVA	
Battery Voltage		12VDC	24VDC	24VDC	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC	
Product Size (L*W*Hmm)		355x272x91.5			400x315x101.5		440x342x101.5		525x355x115		
Package Size (L*W*Hmm)		443x350x187			488x393x198		528x420x198		615x435x210		
N.W (Kg)		6.4			8.5		10		14		
G.W (Kg)		7.3			9.5		11		15.5		
Installation Method		Wall-Mounted									
PV	Charging Mode	MPPT									
	MPPT tracking voltage range	15V-80VDC	30V-100VDC			120V-450VDC	60V-140VDC	120V-450VDC			
	Rated PV input voltage	15V-30VDC	30V-60VDC			360VDC	60V-90VDC	360VDC			
	Max PV Input Voltage Voc (At the lowest temperature)	120VDC			500VDC	180VDC	500VDC				
	PV Array Maximum Power	840W	1680W			4000W	3360W	6000W	4000W*2		
	MPPT tracking channels (input channels)	1							2		
Input	DC Input Voltage Range	10.5-15VDC	21VDC-30VDC			42VDC-60VDC					
	Rated AC input voltage	220VAC / 230VAC / 240VAC									
	AC Input Voltage Range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (INV mode)									
	AC Input Frequency Range	45Hz~55Hz (50Hz), 55Hz~65Hz (60Hz)									
Output	Output efficiency(Battery/PV Mode)	94% (Peak value)									
	Output Voltage(Battery/PV Mode)	220VAC±2% / 230VAC±2% / 240VAC±2%(IN mode)									
	Output Frequency(Battery/PV Mode)	50Hz±0.5 or 60Hz±0.5 (INV mode)									
	Output Wave(Battery/PV Mode)	Pure Sine Wave									
	Efficiency(AC Mode)	≥99%									
	Output Voltage(AC Mode)	Follow input									
	Output Frequency(AC Mode)	Follow input									
	Output waveform distortion Battery/PV Mode)	≤3%(Linear load)									
	No load loss(Battery Mode)	≤1% rated power									
No load loss(AC Mode)	≤0.5% rated power(charger does not work in AC mode)										
Battery	Battery Type	VRLA Battery	Charge Voltage :13.8V; Float Voltage:13.7V(Single battery voltage)								
		Customize battery	Charging and discharging parameters of different types of batteries can be customized according to user requirements (charging and discharging parameters of different types of batteries can be set through the operation panel)								
	Maximum charging current (mains + PV)	120A	100A	110A	120A	100A	120A	100A	150A		
	Max PV Charging Current	60A	60A	60A	60A	100A	60A	100A	150A		
	Max AC Charging Current	60A	40A	50A	60A	60A	60A	60A	80A		
Charging method	Three-stage (constant current, constant voltage, floating charge)										
Protection	Battery low voltage alarm	Battery undervoltage protection value+0.5V(Single battery voltage)									
	Battery low voltage protection	Factory default: 10.5V(Single battery voltage)									
	Battery over voltage alarm	Constant charge voltage+0.8V(Single battery voltage)									
	Battery over voltage protection	Factory default: 17V(Single battery voltage)									
	Battery over voltage recovery voltage	Battery overvoltage protection value-1V(Single battery voltage)									
	Overload power protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)									
	Inverter output short circuit protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)									
Temperature protection	>90°C(Shut down output)										
Working Mode	Mains priority/Solar priority/Battery priority(Can be set)										
Transfer Time	10ms (typical value)										
Display	LCD+LED										
Thermal method	Cooling fan in intelligent control										
Communication(Optional)	RS485/APP(WIFI) monitoring or GPRS monitoring)										
Environment	Operating temperature	-10°C~40°C									
	Storage temperature	-15°C~60°C									
	Noise	≤55dB									
	Elevation	2000m(More than derating)									
	Humidity	0%~95%(No condensation)									

Note: 1. Models RIX-GBMH-12H10, RIX-GBMH-24H15, RIX-GBMH-24H20, RIX-GBMH-24H32L and RIX-GBMH-48H50L only support mains priority mode and battery priority mode, PV priority work mode not supported.

2. All specifications are subject to change without prior notice.