

➤ Closed procedure for using "MANU BYPASS" :

- ① Open "MANU BYPASS" breaker, take out the lock of "AC OUTPUT" breaker, at the same time, lock the "MANU BYPASS" breaker(non-closing this breaker).
- ② Close "AC INPUT"、"DC INPUT"、"PV INPUT" and "AC OUTPUT" breaker, turn on the UPS or inverter.

Warning !



Normally, closing the breaker of the machine and opening the machine is acceptable, when machine is failure, operation must with the professional engineer's help in order to be safe.

6 Specifications

Model		GF100	GF500	GF800	GF1000	GF1500	GF2000	GF2400
Power		100W	500W	800W	1000W	1500W	2000W	2400W
Battery voltage		12Vdc	12Vdc 24Vdc	24Vdc	24Vdc 48Vdc	48Vdc		
Working mode		PV(Photovoltaic priority) / AC(AC priority)Optional						
PV	Input voltage range	12Vdc -- 25Vdc		24Vdc -- 45Vdc		48Vdc -- 90Vdc		
	PV panels configuration(Suggestion)(Vmp)	15Vdc -- 17.8Vdc		30Vdc -- 36Vdc		60Vdc -- 71Vdc		
	PV panels configuration(Suggestion)(Imp≤rated current)	≤20A	≤40A		≤50A	≤60A	≤80A	
	Max charge current	5-20A Optional	10-40A Optional				10-60A Optional	
	Max transfer efficiency	98 %						
	Display	Display panel	LCD + LED					
Mains status (option)	Input voltage range	165Vac-275Vac / 150Vac-275Vac (customized)						
	Input frequency range	45-65 Hz (over this range transfer to inverter model auto.)						
	Output voltage range	220Vac ± 10%						
	MAX Input PF (AC/DC)	98%						
	MAX efficiency	96%						
	MAX Charge current	12A Max(battery discharge ends; Start charging when PV charge current less than the set value)						
	AC over load	110% load, after 255s, transfer to bypass, 120% load ,after 60s transfer to bypass, 150% load, after 10s, transfer to bypass, auto recover after decrease load						
Short circuit	Input fuse / breaker							

Selection of the wire diameter	AC INPUT(mm ²)		≥1			≥1.5			≥2.5		
	AC OUTPUT(mm ²)		≥4			≥12			≥12		
	PV INPUT(mm ²)		≥4	≥12	≥6	≥10	≥12	≥6	≥10	≥12	≥12
	DC INPUT(mm ²)		≥4			≥12			≥12		
Inverter Output	Output voltage		220Vac ± 5%								
	Output frequency		50Hz / 60Hz ± 1% Auto.								
	Output PF		≥0.8								
	Distortion		Line load ≤5%								
	PV-AC transfer time		5Ms typical value Max.8 Ms								
	Max efficiency		84.5%								
	Inverter overload		110% load 255s shut down, 120% load 60s shut down, 150% load 10s shut down								
	No load off (Optional)		Load < 5% after 1min , transfer to bypass mode								
	Short circuit		System Shut down automatically								
	AC abnormal		Beeping 1time/4S, 40Ssilence auto.								
Alarm	Battery low		Beeping 1time/ 0.2S								
	Over load		1time/ 1S								
Communication port (optional)		RS232 / USB / SNMP (Setup available for regular start/shutoff)									
Dry contact		PV failure、 battery low-voltage、 overload、 bypass、 inverter failure/ remote start generator dry contact signal									
Others	Output sockets		RS232/USB/SNMP(Setup available for regular start/shutoff)								
	Surge protection		Optional								
	EMC		EN62040-2:2006;EA61000-3-2:2006; EA61000-3-3:2008								
	IP class		IP20								
	Ambient temperature		0℃ ~ 40℃								
	Ambient humidity		10% ~ 90% (Non Condensed)								
	Noise		≤50dB								
	Working altitude		2000m (Every 100m increase derating 1%)								
	Inverter Size D*W*H (MM)	Wall-mounted	314×147×456			380×195×478					
		Outdoor	545×245×900 / 545×460×900								
Packing Size D*W*H (MM)	Wall-mounted	380×190×500			455×255×522						
	Outdoor	605×320×975 / 605×535×975									



Note !

the solar panel power configuration is related with the inverter working mode and charging current, we suggest match the PV power according to project needs.