

Features:

- True sine output wave
- Standalone metal case
- Synchronized output frequency with mains
- Auto battery charging
- Microprocessor control unit
- Output voltage THD < 5%
- Cold start
- Suitable with: resistance load, motor load, capacity load,
- LCD menu display
- Overcurrent protection 150% (1500W)
- Eco mode, (standby mode 5W)
- 3-stage charging current, settable on LCD MENU
- Backup time according to connected AGM batteries
- Quick installation
- Low-frequency toroidal transformer

Application: PC computers, home wi-fi systems, lighting, garage gates, cctv, access control, heating control systems, measurement systems, motors.



1f/1f



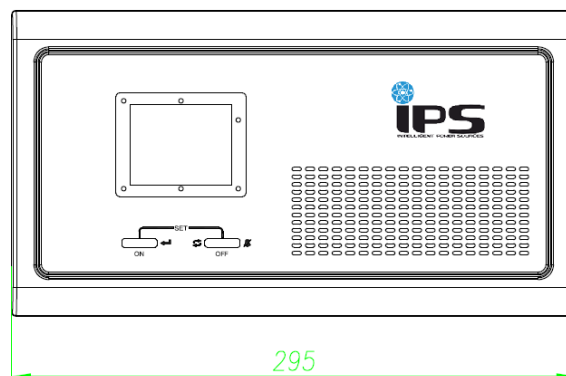
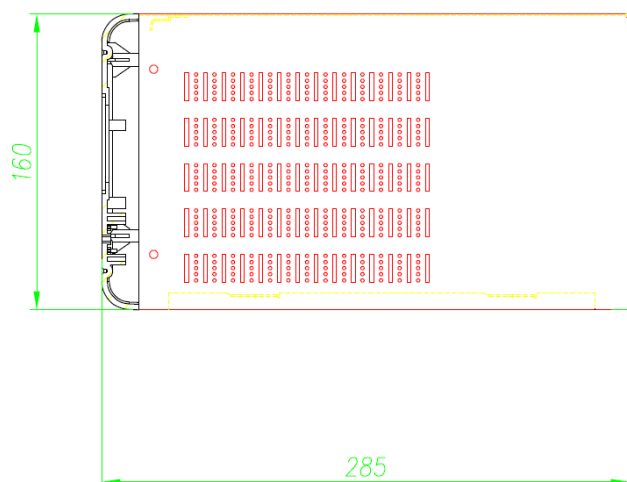
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Technical parameters:

MODEL	IPS1000-SIN
Output power (apparent/active)	1000VA/1000W
INPUT	
Rated input voltage	230Vac 175Vac – 290Vac
Input frequency	50/60Hz ± 10% (auto-detect)
OUTPUT	
Output voltage	Mains mode: 199Vac – 254Vac Battery mode: 230Vac +/-5%, THD max 5%
Frequency	50/60Hz ± 10% (auto-detect)
Output waveform	Pure sine wave
Transfer time	Max. 10ms
Output sockets	2psc (CEE 7/3 Schuko)
Efficiency	>80% (battery mode)
Loads	Resistance, inductive, capacitive, rectifier
Overload in mains mode	105% by 300s, 110% by 120s, 125% by 60s, 150% by 10s, transfer to BYPASS mode
Overload in battery mode	105% by 300s, 110% by 60s, 125% by 10s, 150% by 0,7s, system shut-down
BATTERY	
Working voltage	12V
Charger current	1-40A*
Equalizing voltage	14,1 Vdc
Floating voltage	13,5Vdc
End of discharge (default)	10,2Vdc
End of discharge level	9,6-11,5Vdc
Suitable battery capacity	26....600Ah
Battery wires length	0,8m
Battery wires cross-section	6mm ² , złączka oczko M10
PROTECTIONS	
Full protections	Overload, overcurrent, thermal, battery protection
ENVIRONMENT	
Humidity	20~90% RH @ 0~40°C (non-condensating)
Noise level	Depend on load
DIMENSION & WEIGHT	
Weight netto/brutto (kg)	14 / 15
Lenght/width/height (mm)	293 / 280 / 160
Box lenght/width/height (mm)	370 / 355 / 235

*selectable from LCD MENU, need to adjust depend on AGM battery capacity. Best is 0,1*C₂₀.

Technical drawings:



Standard accessories:

- User manual
- Supply cable

Additional accessories:

- AGM battery  	GLP 26-12	MW 26-12	
	GLP 33-12	MW 33-12	
	GLP 40-12	MW 40-12	
	GLP 55-12	MW 55-12	
	GLP 65-12	MW 65-12	
	GLP 80-12	MW 80-12	
	GLP 100-12	MW 100-12	
	GLP 120-12	MW 120-12	
	GLP 150-12	MW 150-12	
	GLP 200-12	MWL 200-12	

Estimate backup time for 1000W output

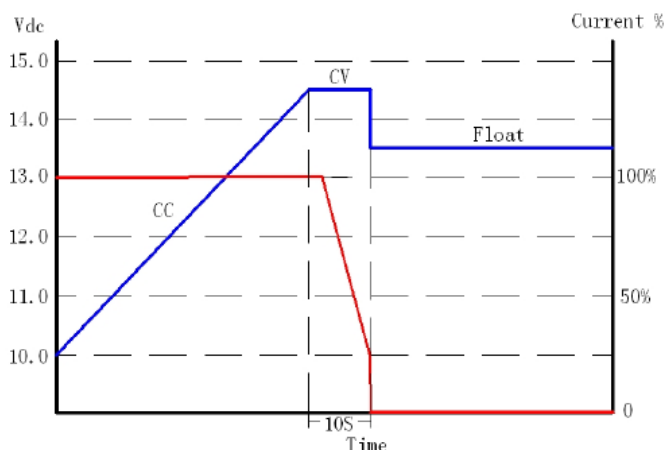
GLP 26-12	GLP 33-12	GLP 40-12	GLP 55-12	GLP 65-12
4min	6min	12min	15min	18min
GLP 80-12	GLP 100-12	GLP 120-12	GLP 150-12	GLP 200-12
20min	30min	40min	50min	1,5h

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Charger characteristic

3-stage charger : CC -> Boost CV -> Float.

- 1) Stage I – constant current, up to equalizing charge voltage
- 2) Stage II – constant voltage, time 10seconds
- 3) Stage III – floating voltage , after 10days recover



LCD MENU function description:

	Function	Description	Default value	Options
1	OUT	Rated output voltage of the inverter	230V	220V/230V/240V
2	HZ	Rated output frequency of the inverter	50Hz	50Hz/60Hz
3	B	Equalizing charge voltage	14,1V	13,6...15V
4	F	Floating charge voltage	13,5V	13,2...14,6V
5	E	End of discharge voltage	10,2V	9,6...11,5V
6	CUR	Charging current	20A	1,2,3,4,5,6,7,8,9,10,15,20,25,30A
7	IECO	Inverter no-load ECO mode	No	No/Yes N/Y
8	INLS	Inverter no-load shutdown function	No	No/Yes N/Y
9	DCAU	DC auto restart function	No	No/Yes N/Y
10	ACAU	AC self-starting function	Yes	No/Yes N/Y
11	INP	Input power matching of the generator	120%	10%-120% rated power
12	INLS	Inverter shutdown load rate	3%	3%-50% rated power
13	T	DC auto restart time	1h	0,5h...8h
14	SAVE	Save and exit	-	No/Yes N/Y

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