



IPS300-SIN-WM IPS600-SIN-WM

Features:

- True sine output wave
- Standalone metal case
- Synchronized output frequency with mains
- Auto battery charging
- Microprocessor control unit, output voltage THD < 5%
- Phase line transfer from input to output during mains mode
- Cold start
- Suitable with: resistance load, motor load, capacity load,
- LCD menu display
- Overcurrent protection 150% (450W, 900W)
- 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.





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Technical parameters:



MODEL	IPS300-SIN-WM	IPS600-SIN-WM
Output power (apparent/active)	300VA/300W	600VA/600W
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	3-10ms	
Output sockets	2pcs (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	13,7V	
Charger current	1-15A* (domyślnie 10A)	1-30A* (domyślnie 20A)
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...400Ah	
Battery wires length	0,5m	
Battery wires cross-section	6mm ² , M10	
PROTECTIONS		
Full protections	Overload, overcurrent, thermal, battery protection	
ENVIRONMENT		
Humidity	20~90% RH @ 0~40°C (non-condensating)	
Noise level	Depend on load	
DIMMENSION & WEIGHT		
Weight netto/brutto (kg)	8,3/9,3	10,5/11,3
Lenght/width/height (mm) w / d / h	400x210x127	
Box lenght/width/height (mm)	490x290x195	

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

Standard accessories:

- User manual
- Supply cable

Additional accessories:

<p>- AGM battery</p> 	<p>GLP 26-12 GLP 33-12 GLP 40-12 GLP 55-12 GLP 65-12 GLP 80-12 GLP 100-12 GLP 120-12 GLP 150-12 GLP 200-12</p>	
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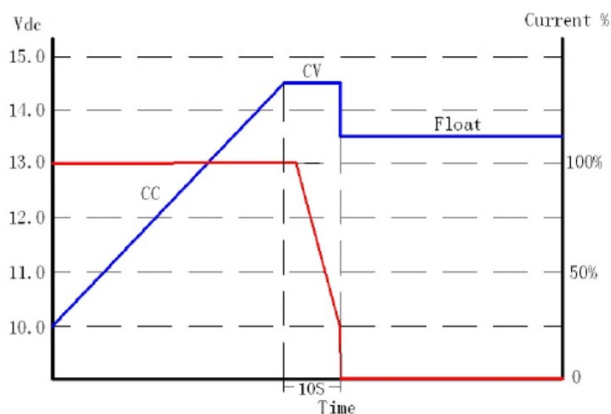
Estimate backup time for 250W output

GLP 26-12	GLP 33-12	GLP 40-12	GLP 55-12	GLP 65-12
20min	30min	40min	55min	1,5h
GLP 80-12	GLP 100-12	GLP 120-12	GLP 150-12	GLP 200-12
2h	2,5h	3h	3,5h	5h

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	10A	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