

PURE SINEWAVE INVERTER / CHARGER

OPIC Series Inverter / Charger Combo

From 600W - 6000W



OmniPower OPIC Series inverter-charger combination was designed for off-grid and power back up applications providing True Sine Wave Inverter, Battery Charger, AC Transfer Switch and Power Management in one unit. It can be connected to either grid or generator to compose a power system for the most demanding applications.

PURE SINE WAVE INVERTER

- Distortion free sine wave AC power for household appliances and sensitive electronics such as TV, stereo, laptop, etc. Make your appliances work smoother, cooler and more efficiently, such as fridges, power tools and microwave.
- Outstanding peak power together with super fast protection make it suitable for heavy inductive loads.
- High efficiency gets the most out of your batteries.
- Low power consumption saves energy.
- Adjustable low-voltage disconnect level suitable for various applications.

SOPHISTICATED BATTERY CHARGER

- Powerful charger with multi-stage charging algorithm.
- Generator mode makes it suitable to work with a wide range of generators.
- Power factor corrected battery charging.
- Charger power adjustable.
- Temperature compensated charging.
- Various battery types: AGM, GEL, Flooded.

AUTOMATIC TRANSFER SWITCH

- In the event of a grid failure, the output will switch to inverter automatically and take over the power supply to the load without interruption.

POWER MANAGEMENT

- Starting a generator when battery voltage runs low.
- Along with battery running low, it will supply signals for customers to implement smart load management.

SOLAR READY

OPIC Series: Pure Sinewave Inverter / Charger Combo

MODEL	OPIC-0625L	OPIC-1040L	OPIC-1560L	OPIC-2080L
Nominal DC Voltage	12VDC			
Inverter continuous power (W at 25°C)	600	1000	1500	2000
Charger max current (A)	25	40	60	80
De-sulphation	15.5V for 30mins			
Input Circuit breaker (A)	6	10	10	16
Output Circuit breaker (A)	3	6	6	10
Dimensions	475x190x130		557x220x180	
Weight (kgs)	9.5	10.5	18	20

MODEL	OPIC-0615M	OPIC-1020M	OPIC-1530M	OPIC-2040M	OPIC-3060M	OPIC-4080M	OPIC-50100M
Nominal DC Voltage	24VDC						
Inverter continuous power (W at 25°C)	600	1000	1500	2000	3000	4000	5000
Charger max current (A)	15	20	30	40	60	80	100
De-sulphation	31V for 30mins						
Input Circuit breaker (A)	6	10	10	16	20	25	32
Output Circuit breaker (A)	3	6	6	10	16	20	25
Dimensions	475x190x130		557x220x180			720x220x180	
Weight (kgs)	9.5	10.5	18	20	24.5	34.5	38

MODEL	OPIC-2020S	OPIC-3030S	OPIC-4040S	OPIC-5050S	OPIC-6060S
Nominal DC Voltage	48VDC				
Inverter continuous power (W at 25°C)	2000	3000	4000	5000	6000
Charger max current (A)	20	30	40	50	60
De-sulphation	62V for 30mins				
Input Circuit breaker (A)	16	20	25	32	40
Output Circuit breaker (A)	10	16	20	25	32
Dimensions	475x190x130		557x220x180		
Weight (kgs)	18.5	22.5	34.5	38	42

INVERTER		
Nominal Voltage	12VDC / 24VDC / 48VDC	
Cont. output power at 25°C (W)	12VDC: 600W - 2000W 24VDC: 600W - 5000W 48VDC: 2000W - 6000W	
Output voltage	230VAC	
Output voltage variation	Max ± 2%	
Output frequency	50 / 60Hz ±0.1%	
Efficiency	Max 88%	
Overload (600W-2000W model)	110% 15mins	
	125% 1min 150% 20s	
Overload (3000W and above model)	110% 1min	
	150% 20s	
Crest factor	3:1	
THD	<3%	
Low voltage disconnect (VDC) settable	12VDC: 10.0 - 11.7	
	24VDC: 20.0 - 23.4 48VDC: 40.0 - 46.8	
Overload and overheat protection	Auto disconnect with 3 times restart attempt	
Shortcut protection	Auto disconnect	
	Zero load power	Zero load power (power save mode)
OPIC-0625L, OPIC-0615M:	17W	4W
OPIC-1040L, OPIC-1020M:	22W	5W
OPIC-1560L, OPIC-1530M:	27W	7W
OPIC-2080L, OPIC-2040M, OPIC-2020S:	36W	9W
OPIC-3060M, OPIC-3030S:	72W	18W
OPIC-4080M, OPIC-4040S:	91W	22W
OPIC-50100M, OPIC-5050S:	112W	26W
OPIC-6060S:	123W	30W

OTHER DATA	
Transfer time	10ms-15ms (UPS mode)
	2s (GEN mode)
Dry Contact	x3
Enclosure	Aluminium case
Cooling	Forced fan
Protection	IP21
Battery connector	M6 x 2
AC Connector	Terminal block (M3 screw)
Safety	EN60950-1
Emmission	EN55022
Immunity	EN55022

CHARGER	
AC Input voltage max	250VAC - UPS mode
	260VAC - GEN mode
AC Input voltage min	194VAC - UPS mode
	185VAC - GEN mode
Input frequency	45Hz-65Hz - UPS mode
	40Hz-70Hz - GEN mode
Battery types	AGM/GEL/Flooded
Nominal output	12VDC / 24VDC / 48VDC
Output voltage	Refer to manual
Max output current	Refer to other specs
Absorption time	Variable
De-sulphation	15.5V / 31V / 62V
Temperature compensation	-4mC / °C / cell > 25°C

ACCESSORIES

COMMUNICATION MODULE

CM Module: Rs232, 3 x Dry Contacts



BATTERY TEMPERATURE SENSOR



REMOTE CONTROL OPIC-RCC



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