

# Pure Sine Wave Inverter

## eRAY series

### -12vdc/24vdc

400W – 2KW



**Remote RIH (White)**



**Remote RIH (Black)**



**WAGO terminal for AC in and out**

eRAY inverter could supply a steady pure sine wave AC to various load on board, such as power tools, coffee machine, microwave or sensitive electronics. It could bring home comfort and convenience for your life or work on board.

Models with by-pass output and built in ground relay is available, which allows the heavy AC equipment like coffee maker to be powered by shore power at campsite, but not consumes any power from battery. The built-in ground relay will work with external RCD device properly to provide 100% safety against electricity shock.

## Features

- Pure sine wave output with full power at 35°C
- High frequency design featuring compact and light weight
- 200% surge capability
- High efficiency up to 90%
- Low status consumption power
- Power save mode through dip switch
- Thermal control fan
- With built in USB charger, 5V 2A
- With dry contact input and output
- Remote control available
- With by-pass output and built in ground relay (For model 1500W and 2000W: IH1500L-BYP, IH2000L-BYP)

Model No.	IH400L / M	IH700L / M	IH1000L / M	IH1500L / M	IH2000L / M
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## DC Input

Nominal voltage (VDC)	12 / 24				
Voltage range (VDC)	10.5 ~ 16.0 / 21.0 ~ 32.0				
Input under - voltage protection (VDC)	10.0 ± 0.5 / 20.0 ± 1.0				
Input over - voltage protection (VDC)	16.5 ± 0.5 / 33 ± 1.0				
No load current	≤ 0.5A	≤ 1A	≤ 1A	≤ 1.1A	≤ 1.3A
Power saving mode	N / A			≤ 0.3A	
Current when power off	≤ 3mA				

## AC Output

Continuous output power @ 35°C (W)	400	700	1000	1500	2000
Maximum output power (1min) (W)	440 ± 5%	770 ± 5%	1150 ± 5%	1600 ± 4%	2150 ± 2%
Output voltage	230VAC ± 5%				
Output frequency	50 / 60 ± 0.5Hz				
Output waveform	Pure sine wave				
Total harmonic distortion	< 3% @ nominal load				
Short circuit protection	< 5s, auto - restart				
Efficiency (max)	90%				

## By-Pass Output

Nominal voltage	N / A		230VAC		
Voltage range	N / A		170-260VAC		
Max output current	N / A		30A		
Transfer time	N / A		<30ms		

## DC Output

Output voltage	N / A	5 ± 0.25VDC			
Maximum output current	N / A	2A			

## Protection

Input protection	over / under voltage protection, reverse polarity (internal fuse)				
AC output protection	over load, short circuit				
Others	over temperature				

## Other Data

AC output connector	sockets / WAGO terminal				
DC output connector	N / A	USB socket x 1			
Communication	N / A	RS485			
Enclosure	aluminum with anodized, flame proof plastic				
Dimension (mm) (max)	222 x 166 x 64	313 x 187 x 96		403 x 256 x 99	
Net weight (kg)	1.2	1.7	2.4	4.6	4.8
Cooling	temperature and load controlled fan				
Noise	< 55dB				
Protection	IP20				

## Safety & EMC

Safety	EN62477-1				
EMC	EN61000-6-1; EN61000-6-3				
E - mark	E4-10R05-01-4418; E4-10R05-01-4419				

## Environment

Operating ambient temperature	- 20°C ~ 40°C				
Storage temperature range	- 30°C ~ 70°C				
Storage humidity	10% ~ 95% RH				