Datasheet
Mestic Rota pure sine wave inverter series

The Mestic Rota series converts 12 V battery power into stable 230 V pure sine wave AC and automatically switches between shore and battery power for an uninterrupted energy supply in your camper, caravan, boat or off-grid installation.



Inverter pure sine wave

Pure | 12V Input | 230V Output

- Pure sine wave output (THD <5%)
- Built-in ATS, priority switch and bypass
- Transfer time below 16 ms
- High efficiency up to 92%
- RS-485 communication, Bluetooth® and WiFi
- USB (5 V / 2.1 A) and USB-C output (max. 35 W)
- Fully isolated input and output
- LED status display
- Input and output protection systems
- Includes AC power cable, DC cables and external display
- 2 year warranty



2 YEARS WARRANTY

Features

- **Pure sine wave technology for reliable performance:** The inverter delivers a stable and clean AC output, making it suitable for sensitive electronics such as coffee machines, laptops, televisions and battery chargers.
- **Integrated bypass function and priority switch:** The inverter automatically switches between shore power and battery power, ensuring a continuous and uninterrupted power supply at all times.
- **Smart and efficient power conversion:** Designed for optimal efficiency with low standby consumption, allowing longer battery operation during off-grid use.
- **High peak power output:** Suitable for devices with high start-up currents, such as power tools, compressors and kitchen appliances, thanks to a peak capacity up to twice the nominal power.
- **Compact and durable design:** The lightweight housing and compact dimensions make the inverter easy to install in campers, caravans, boats and off-grid systems.
- **Advanced protection systems:** Equipped with protection against overload, overheating, overvoltage, undervoltage and reverse polarity for safe and reliable operation.
- **Easy installation:** Supplied with connection cables and designed for quick and straightforward installation.

Communication

- **Status & control:** The LED display on the inverter gives you instant insight into input voltage, output power and operational performance. Switching the inverter on or off can be done with the button on the inverter, the external display with on/off button or the Mestic smart app.
- **Mestic smart app:** For complete insights; monitor real-time power consumption, inverter performance and system status directly from your smartphone.
- **Full smart connectivity:** WiFi and Bluetooth® for seamless system integration, real-time monitoring and advanced control wherever you are.

Works seamlessly with the Mestic smart app

WiFi Bluetooth

Download on the App Store

GET IT ON Google Play



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Model	Rota MI-1000p	Rota MI-2000p	Rota MI-3000p
Article No.	1519110	1519120	1519130
Electrical data			
Output			
Rating Power	1000 W	2000 W	3000 W
Peak Power (max. 2 sec.) (surge / short-term)	2000 W	4000 W	6000 W
Waveform		Pure Sine Wave	
Efficiëncy (min.)		>89%	
Output voltage (AC)		200 / 220 / 230 / 240 V AC ±10%	
Output frequency		50 / 60 Hz ±1	
Total Harmonic Distortion (THD)		<5%	
AC socket	1x	2x	1x
Terminal output	-	-	1x
Input			
DC Voltage		12 V DC	
Voltage range		10.0~16.0 V DC	
No load power consumption		@12.8 V DC	
On mode @ no load mode	<0.42 A	<0.67 A	0.78 A
Fuse	45 A x3	35 A x9	45 A x9
AC Input			
AC Range		200 / 220 / 230 / 240 V AC ±10%	
Frequency Factory Setting		50 / 60 Hz	
Transfer switch		Standard ATS: Inverter to utility AC: 8~10 ms ; Utility AC to inverter: 16~25 ms	

Dimensions and weight			
Dimensions (L x W x H)	340 x 182 x 930 mm	410 x 252 x 93 mm	468 x 252 x 120 mm
Weight	2.6 kg	5 kg	6.2 kg

Protection	
Low Voltage Alarm ±0.2 V	10.8 V DC
Low Voltage Disconnect ±0.2 V	10.0 V DC
Low Voltage Reconnect ±0.2 V	12.5 V DC
High Voltage Disconnect ±0.2 V	16 V DC
High Voltage Reconnect ±0.2 V	15.8 V DC
Input protection	Reverse Polarity (Fuse) / Under Voltage / Over Voltage / AC over current (Breaker)
Output protection	Short Circuit / Overload / Over Temperature / Over Voltage
Cooling	Thermal control fan

Environment	
Working temperature	0~+60 °C
Storage temperature	0~+70 °C
Relative humidity	Max. 90%, non-condensing

Communication	
LCD Display	Input voltage / Output wattage / Temperature / Output voltage / Cooling / Work status
Remote control display	Input voltage / Output wattage / Temperature / Output voltage / Cooling / Work status
Communication Port	RS-485
USB	1x USB-A 5 V / 2.1 A / 1x USB Type-C max. 35 W
Wireless communication	Bluetooth® and WiFi
App control	With the Mestic App

Compliance data	
Certifications	CE, ECE R10, LVD, EMC
Warranty	2 Years

*Note
1) Value test by input voltage at 12.8 V / 25.6 V / 50.4 V
2) All the parameters are measured at rated load, 25 °C ambient temperature
3) The specifications are subject to change without prior notice for further improvement of products.

Mestic is a brand of Gimeg Nederland B.V.
Atoomweg 99 3542 AA Utrecht The Netherlands
sales@gimeg.nl www.mestic.nl