

Datasheet GP12300 & GP24300

12/24VDC-230VAC 300W Modified sinus inverter

Modified sine wave inverter from Genius is a product designed for the leisure market. It is compact and lightweight and ideal for mounting in tight spaces, such as vehicles and caravans. With 300W continuous power, these models are ideal for use with laptop, digital camera, game console and other small electronic devices.



The advantage of using this type of inverter is definitely the price and weight. Genius is one of the best brands in the market at this price level, and they are therefore one of the most popular products on the market.

Modified sine wave is also called trapezoidal or square wave. This means that this type of inverter does not provide a pure sine wave like our main power available at home and as we know from more expensive inverters. As most hobbyists are using products which are not critically sensitive or have inductive and offset loads, the limitations by using a modified inverter are therefore of minor nature. The Genius inverter is electronically isolated and has soft start power.

Specifications	
Dimensions L/W/H	190 mm x 91mm x 58mm
Net. weight:	1,1 kg
Connecting to 12V DC:	Cigarette plug and alligator clip included
Connecting to 230V AC:	Delivered with one Schuko socket
Alarm and thermal shut down:	At 60° +/- 5° degrees Celsius
Short-circuit protection	Yes



Model specifications	GP12300	GP24300
DC Input Voltage	10VDC-15VDC	20VDC-30VDC
Continuous power output	300W	300W
Output power surge	1000W	1000W
No load current draw	<0.3A	<0.3A
DC Input fuse	20A	10A
Alligator clip fuse	35A	20A
Cigarette plug fuse	15A	10A
Low battery alarm	10.5VDC +/- 0.5V	21VDC +/- 1V
Low battery shuts down at	10VDC +/- 0.5V	20VDC +/- 1V
High battery shuts down at	15,5VDC +/- 0.5V	30VDC +/- 1V

RoHS Compliant- 2002/95/EC -- E-mark approval – 72/245/EEC / 2006/96/EC
 CE approval- EMC- EN55022/ EN55024 LVD- EN61558 :97 + A1 : 98