

MERLIN SINEWAVE INVERTERS [24V]

This Merlin Sinewave Inverter silently converts 24v DC battery power to 230v AC mains electricity using pure sinewave technology to provide an interference-free output that is fully compatible with even the most sensitive AC appliances.

All Merlin Sinewave Inverters are rated for continuous output and feature low battery, overload, overheat, and shortcircuit protection. Each inverter is continuously rated at up to 25°C to ensure continuous operation even at full power. Each inverter uses convective (non-fan assisted) cooling at low power and thermostatic fan cooling at higher outputs/ temperatures. Heavy duty DC connection hardware is provided for resistance-free connection to your battery system. 24V input models are available on request.

- **Pure sinewave output**
ensures interference-free operation with all electrical appliances.
- **High surge capability**
for starting inductive loads and those with electrical motors (such as vacuum cleaners and pumps).
- **Clean output**
with a Total Harmonic Distortion (THD) of less than 3% (better than normal mains power).
- **High quality design**
and manufacture process.



PART#	01-8045	01-8036	01-8038
PARAMETER	500W, 24V MODEL	1000W, 24V MODEL	2000W, 24V MODEL
AC OUTPUT			
AC OUTPUT POWER (CONTINUOUS)	400W	1000W	2000W
AC OUTPUT POWER (PEAK)	800W	2000W	4000W
AC OUTPUT VOLTAGE/FREQUENCY	230VAC / 50HZ	230VAC / 50HZ	230VAC / 50HZ
AC OUTPUT CURRENT	2.17A	4.3A	8.7A
AC OUTPUT WAVEFORM	TRUE SINEWAVE (<3% THD)	TRUE SINEWAVE (<3% THD)	TRUE SINEWAVE (<3% THD)
PEAK EFFICIENCY	90%	90%	90%
AC RECEPTACLE	EURO, AUSTRALIA, UK	EURO, AUSTRALIA, UK	EURO, AUSTRALIA, UK
DC OUTPUT			
5V USB OUTPUT	2.1 A	2.1A	2.1A
DC INPUT			
VOLTAGE (NOMINAL)	25VDC	25VDC	25VDC
OPERATION RANGE	21 - 31VDC	21 - 31VDC	21 - 31VDC
CURRENT (NO LOAD)	0.5A	0.8A	0.8A
PROTECTION			
INPUT UNDERVOLTAGE SHUTDOWN	21.0VDC	21.0VDC	21.0VDC
INVERTER OVERVOLTAGE SHUTDOWN	23.6VDC	23.6VDC	23.6VDC
DISPLAY PANEL			
INDICATOR	POWER, FAULT	STATUS	STATUS
DIGITAL DISPLAY (LED)	NOT APPLICABLE	INPUT VOLTAGE, OUTPUT POWER, WARNING, ERROR	
IGNITION START	NOT APPLICABLE	USE REMOTE PORT	USE REMOTE PORT
REGULATORY COMPLIANCE			
MARKINGS	CE E-MARK	CE, E-MARK	CE, E-MARK
CONFORMANCE	LVD, EMC	LVD, EMC	LVD, EMC
ENCLOSURE			
WEIGHT(KG)	1.7	2.7	5.2
DIMENSIONS (MM)	200 X 173 X 89	322 X 173 X 89	418 X 230 X 112