

MERLIN EXTREME DUTY INVERTERS [300W - 800W]

Merlin Extreme Duty Inverters utilise hybrid power conversion technology to provide significant benefits over low-cost, leisure style, switch-mode inverters and are designed specifically for mission critical applications where lives and livelihoods depend on power.

Designed & manufactured in Europe, Merlin Extreme Duty Inverters are built with leading brand components to provide a superlative inverter that outperforms all others and last years in everyday applications. Merlin Extreme Duty Inverters carry a full 5 year warranty.

Merlin Extreme Duty Inverters are highly configurable. Using simple windows-based software, an internal relay can be set-up to activate external devices (such as an automatic generator start facility) when any internal alarm is triggered. Various set points and configurable neutral/earth bonding ensures that you are able to conform to 18th Edition wiring regulations. Automotive e-mark also ensures legal fitting aboard road-going vehicles.

- **Significantly improved reliability** which is translated to the warranty term of 5 years.
- **High performance** in their ability to provide greater than their rated output for lengthier periods of time.
- **Withstands inductive AC loads** without inverter damage.
- **Advanced protection** against short circuits, overloading, and high temperatures.
- **Wide variety of sizes** combined with the robust industrial design, helps in finding the right model for every application.



PART#	30-1006	30-1010	30-1008	30-1012
RATING	300W, 12V	500W, 12V	350W, 24V	800W, 24V
AC OUTPUT				
OUTPUT POWER (CONTINUOUS)	250W	500W	300W	600W
OUTPUT POWER (10 MINS)	330W	600W	360W	800W
OUTPUT POWER (SURGE)	700W	1000W	800W	1200W
OUTPUT VOLTAGE/FREQUENCY	230V AC \pm 2% 50HZ \pm 0.05%	230V AC \pm 2% 50HZ \pm 0.05%	230V AC \pm 2% 50HZ \pm 0.05%	230V AC \pm 2% 50HZ \pm 0.05%
OUTPUT WAVEFORM	TRUE SINEWAVE (THD <5%)	TRUE SINEWAVE (THD <5%)	TRUE SINEWAVE (THD <5%)	TRUE SINEWAVE (THD <5%)
PEAK EFFICIENCY	91%	92%	93%	93%
DC INPUT				
VOLTAGE (NOMINAL)	12V	12V	24V	24V
OPERATION RANGE	10 . 52 - 16 VDC	10 . 52 - 16 VDC	21 . 02 - 31 . 0VDC	21 . 02 - 31 . 0VDC
CURRENT (NO LOAD, ASB)	<3W [0.7W]	<4.8W [0.74W]	<3.5W [0.8W]	<6.5W [0.7W]
ASB THRESHOLD	POUT=12W	POUT=15W	POUT=15W	POUT=15W
TEMPERATURE				
OPERATING TEMP. RANGE	-20°C ... +50°C	-20°C ... +50°C	-20°C ... +50°C	-20°C ... +50°C
STORAGE TEMP. RANGE	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C
COOLING	VARIABLE SPEED FAN	VARIABLE SPEED FAN	VARIABLE SPEED FAN	VARIABLE SPEED FAN
PROTECTION				
LOW BATTERY VOLTAGE	YES	YES	YES	YES
OUTPUT SHORT CIRCUIT	YES	YES	YES	YES
HIGH TEMPERATURE	YES	YES	YES	YES
OVERLOAD	YES	YES	YES	YES
INDICATIONS				
POWER ON	YES	YES	YES	YES
ERROR	YES	YES	YES	YES
ASB MODE	YES	YES	YES	YES
ENCLOSURE				
DC INPUT CONNECTIONS	2 X 4. 0MM ²	2 X 10. 0MM ²	2 X 4. 0MM ²	2 X 4. 0MM ²
AC OUTPUT CONNECTIONS	SCHUKO (UK PLUG SUPPLIED)	SCHUKO (UK PLUG SUPPLIED)	SCHUKO (UK PLUG SUPPLIED)	SCHUKO (UK PLUG SUPPLIED)
DIMENSIONS (MM)	184 X 98 X 130	228 X 113 X 163	184 X 98 X 130	228 X 113 X 163
WEIGHT (KG)	3.5	6.2	3.5	6.2
PROTECTION CLASS	IP20	IP20	IP20	IP20
STANDARDS	CE MARK MEETING EMC DIRECTIVE 2004/1008/EC & LVD 2006/95/EC COMPLYING WITH EN60335-1, E4-95/54/EC, ROHS 2002/95/EC			