



MERLIN EXTREME DUTY INVERTERS [48V]

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.













30-1030	30-1032	30-1034	30-1036
450W, 48V	800W, 48V	1800W, 48V	3500W, 48V
300W	600W	1400W	2800W
450W	800W	1800W	3800W
800W	1250W	3000W	6500W
230Vac ± 2%	230Vac ± 2%	230Vac ± 2%	230Vac ± 2%
50Hz ± 0.05%	50Hz ± 0.05%	50Hz OR 60Hz	50Hz OR 60Hz
		± 0.05%	± 0.05%
TRUE SINEWAVE	TRUE SINEWAVE	TRUE SINEWAVE	TRUE SINEWAVE
(THD<5%)	(THD<5%)	(THD<5%)	(THD<5%)
95%	94%	94%	93%
48V	48V	48V	48V
41.0 ²⁾ - 60.0Vdc	41.0 ²⁾ - 60.0Vdc	41.0 ²⁾ - 60.0Vdc	40.0 ²⁾ - 64.0Vdc
<6.5W	<8.2W	<12.0W	<21.0W
POUT=15W	POUT=15W	POUT=10W	POUT=10W
-20°C +50°C	-20°C +50°C	-20°C +50°C	-20°C +50°C
-40°C +80°C	-40°C +80°C	-40°C +80°C	-40°C +80°C
VARIABLE SPEED FAN	VARIABLE SPEED FAN	VARIABLE SPEED FAN	VARIABLE SPEED FAN
YES	YES	YES	YES
YES	YES	YES	YES
YES	YES	YES	YES
YES	YES	YES	YES
NO	NO	YES	YES
NO	NO	YES	YES
YES	YES	YES	YES
YES	YES	YES	YES
YES	YES	YES	YES
NO	NO	YES	YES
2 X 4.0MM ²	2 X 10.0MM ²	2 X 25.0MM ²	M10 BOLT TERMINALS
SCHUKO	SCHUKO	SCREW TERMINALS	SCREW TERMINALS
(UK PLUG SUPPLIED)	(UK PLUG SUPPLIED)		
184 X 98 X 130	228 X 113 X 163	351 X 210 X 114	370 X 431 X 132
3.5	6.2	10.5	18.5
IP20	IP20	IP21	IP21
CE MARKET	MEETING EMC DIRECTIV	/E 201/./30/ELLAND LVD	2017/35/EU
	450W 800W 230Vac ± 2% 50Hz ± 0.05% TRUE SINEWAVE (THD<5%) 95% 48V 41.0²) - 60.0Vdc <6.5W POUT=15W -20°C +50°C -40°C +80°C VARIABLE SPEED FAN YES YES YES YES YES YES NO NO NO 2 X 4.0MM² SCHUKO (UK PLUG SUPPLIED) 184 X 98 X 130 3.5 IP20	300W	300W 600W 1400W 800W 1800W 800W 1250W 3000W 230Vac ± 2% 230Vac ± 2% 230Vac ± 2% 50Hz ± 0.05% 50Hz ± 0.05% 50Hz ± 0.05% 50Hz ∈ 0.05% 50Hz ∈ 0.05% 17 CHD ≤ 5% 17 CHD ≤ 5% 94% 94% 94% 94% 94% 94% 94% 94% 94% 94