


# PURE SINEWAVE INVERTERS

## COTEK 1500W SERIES PWM Pure Sinewave 1500W 12V, 24V or 48V

 PWM High Frequency Pure Sinewave Inverters provides an economical way to get instant AC power anywhere and at anytime as long as a battery is handy.

The inverter converts a DC power source (e.g. from a car, truck, boat or standard battery; or solar panels) to 230 VAC power. The inverter range is specifically suitable for solar installations. High frequency PWM technology ensures a compact unit providing high reliability and performance.

The inverter has a robust design and is quiet and portable. It can therefore be operated in almost any environment. The unit has a high current start up capability, protected against short circuit, reverse polarity and over load. The units also feature automatic load sensing (important for solar applications).



### □ Applications :

Lights, drills, general electrical tools, computerised instruments, medical equipment, emergency power, computers, TV sets, radios, satellite receivers, fans, small water pumps, etc.

### □ Features :

- Pure sine wave output (THD < 3% )
- Input & output isolated design
- Capable of driving highly reactive & capacitive loads
- Low power saving mode to conserve energy
- RS232 interface / remote control port
- Built-in voltage and watt meters (1500W only)
- Thermostatically controlled cooling fan
- Advanced microprocessor design
- Short Circuit / OverVoltage / UnderVoltage /
- OverTemperature / OverLoad protection
- Output Frequency switch selectable



## TECHNICAL SPECIFICATIONS

MODEL	S1500-212	S1500-224	S1500-248
Cont. Output Power	1500W		
Max. Output Power (3 min.)	1650W		
Surge Rating	2000W		
Input Voltage	12V	24V	48V
Output Voltage	230V ± 3% (standard stock voltage) Also available in 220, 240 & 110, 115, 120 V ± 3% (not available as standard stock item - can be ordered on special request)		
Output Current @ 220/230/240V	6.81A / 6.52A / 6.25A		
Output Frequency	50 / 60 Hz +/- 0.05%		
Peak Output Current @ 220/230/240V	9.09A / 8.69A / 8.33A		
Efficiency (peak load)	86%	88%	90%
Efficiency (max./avg.)	85%	88%	86%
Efficiency (full load)	86%	89%	90%
No Load Current Draw	< 1.5W saving mode		
Output Waveform	Sinewave < 3% THD		
Output Voltage Regulation	220 / 230 / 240V RMS - 10% / +4% depending on model ordered		
Input Voltage Range	10-16VDC	20-32VDC	42-62VDC
Max. DC Input Current	150A	75A	32.5A
Protection	Overload, short circuit, reverse polarity (fuse), over/under input voltage, over temperature		
Battery Level Indicator (LED Bar)	Red / Orange / Green LED		
Load Level Indicator (LED Bar)	Red / Orange / Green LED		
Failure Indicator	Red LED		
Power Saving Recovery Time	5 Second		
Interface Control Port	RS-232C with baud rate 1200, 2400, 4800 (switch selectable)		
Remote Control	CR-6 / CR-7 / CD-8 Optional (Optional)		
Operating Temperature Range	0 - 40 °C		
Storage Temp. Range	- 30 °C to 70 °C		
Cooling	Load controlled cooling fan (65 deg C On, 45 deg C Off)		
Dimensions	390 x 275 x 105 mm		
Weight	7.0 kgs		
Approvals	EMC : EN50081-1:1992 / EN50082-1:1992 EN55022B:1994 / EN61000-4-2:1995 EN6100-4-3:1996 / ENV50204:1995 e-Mark e13-020866		
Safety	EN60950		
Warranty	1 year		

We reserve the right to change specifications without prior notice