

# » Y-ONE 500

## - 48/230

(NO AC IN)



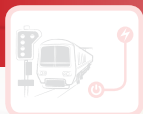
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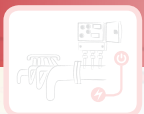
DATAKOM



MASS TRANSIT



OIL & GAS



POWER UTILITIES



## STANDALONE INVERTER SYSTEM

POWER 500 VA  
INPUT 48 Vdc  
OUTPUT 230 Vac



### DESCRIPTION

This standalone inverter is capable of converting a 48 Vdc power source into a pure 230 Vac sine wave.

With modules in place for many years, the Y-One is extremely reliable.

The low DC ripple voltage avoids any disturbance on DC loads and batteries.

This product also exists in another version with an additional AC input to increase significantly the overall conversion efficiency in normal conditions.

### APPLICATIONS

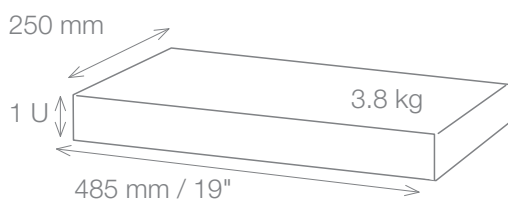
All business critical applications and all types of AC loads. The design is cost effective, installation easy.

### MAIN FEATURES

- » High reliability
- » No disturbances on DC loads & batteries
- » Only 1U high
- » Easy maintenance

No AC in (Regular)	
<b>GENERAL</b>	
Part Number	T351730111
EMC (immunity)	EN 61000-4-2 up to 6
EMC (emission) (class)	EN 55022 (A)
Safety	IEC 60950-1- EN62040-1-1
Cooling / Isolation	Forced / Doubled
MTBF	240 000 hrs
Efficiency	89%
Dielectric strength DC/AC	4300 Vdc
True Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC in port
RoHS	Compliant
Vibration	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test
Operating conditions	Designed for installation in an IP20 or IP21 environment. When installed in a dusty or corrosive environment, appropriate measures (air filtering,...) must be taken.
Altitude above sea without de-rating	< 1500 m / derating > 1500 m – 0.8 % per 100 m
Ambient / storage temperature / relative humidity	-20 to 50 ° C / -40 to 70 ° C / 95 %, non-condensing
Material (casing)	Coated steel
<b>AC OUTPUT POWER</b>	
Nominal Output power (VA) / (W)	500 / 400
Short time overload capacity	150 % (15 seconds) 110 % permanent within T° range
Admissible load power factor	0 lagging to 0 leading
<b>DC INPUT SPECIFICATIONS</b>	
Nominal voltage (DC)	48 V
Voltage range (DC)	40 - 60 V
Nominal current (at 40 V and 400W)	11.2 A
Maximum input current (for 15 second) / voltage ripple	17 A / 2 mV PSO
Input voltage boundaries	N/A
<b>AC OUTPUT SPECIFICATIONS</b>	
Nominal voltage (AC)	230 V
Frequency / frequency accuracy	50 or 60 Hz / ±0.01 %
Total harmonic distortion (resistive load)	< 1.5 %
Load impact recovery time	0.4 ms
Turn on delay	20 s
Nominal current. Protected against reverse current	2.2 A
Crest factor at nominal power	2.8 : 1
With short circuit management and protection	
Short circuit current capacity	2.1 I <sub>n</sub> during 15 s and 1.5 I <sub>n</sub> after 15 s
<b>TRANSFER TIME PERFORMANCE AC to DC and DC to AC</b>	
Max. voltage interruption / total transient voltage duration (max)	0 ms / 0 ms
<b>SIGNALING &amp; SUPERVISION</b>	
Display	Synoptic LED on front of the module
Alarms output / supervision	Dry contact on shelf at the rear of the module
Remote on / off	On rear terminal of the module

Y-ONE 500 - 48/230 - No AC in - Datasheet - v1.0 Specifications can change without notice. New data will be updated on our Web site: [www.cet-power.com](http://www.cet-power.com). The present equipment is protected by several international patents, trademarks and copyrights.



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Leading AC Backup Technology