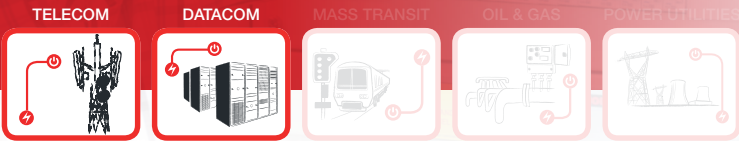


Y-ONE 500 - 48/120 (NO AC IN)



STANDALONE INVERTER SYSTEM

POWER 500 VA
INPUT 48 Vdc
OUTPUT 120 Vac

DESCRIPTION

This standalone inverter is capable of converting a 48 Vdc power source into a pure 120 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.

The Y-One 500 – 48/120 is available in a UL certified and non-certified version.

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

APPLICATIONS

Convenient for any Mission Critical Applications. It reveals its full worth in large deployments when energy savings at module scale turn into substantial OPEX savings at global level.

Handle any type of AC load including laser printers, compressors and induction motors.

Compact, friendly Plug & Play installation, suitable for racks and wall mount applications.

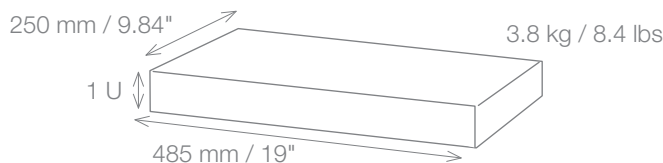


MAIN FEATURES

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

GENERAL		Y-One 500 - 48/120 - cUL (No AC in)	Y-One 500 - 48/120 - non UL (No AC in)
Part number		T351330111	T351A30111
Applicable Standards		cULus 1778 Listed / IEC 1000-4 / FCC part 15 / ROHS	
Cooling / Isolation DC/AC		Forced	
MTBF (module)		240 000 hrs	
Efficiency (Typical): Enhanced power conversion / on line		85.5%	
Dielectric strength DC/AC		4,300 Vdc	
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 ambience / Ingress Protection		Free from dust and corrosive materials / NEMA 1 ⁽²⁾	
Altitude above sea		1500m; no derating, >1500m; 0.8 % derating / 100 m	
Operating temperature (Ambient & measured @ air inlet)		-20 to 50 °C; -4°F to 122°F for rated power 50 °C to 65°C with 2%/°C derating ^{1,4} 122°F to 149°F with 1%/°F derating ^{1,4}	
Ambient / storage temperature / relative humidity		-40° to 70 ° C / -40°F to 158°F / 95 %, non-condensing	
Material (casing)		Coated steel - ALU ZINC	
AC OUTPUT POWER			
Nominal Output power		500 VA / 400 W	
Short duration overload capacity		150 % (15 seconds)	
Long duration overload capacity		110 % permanent	
Admissible load power factor		Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1	
Internal temperature management and switch off		Automatic	
DC INPUT SPECIFICATIONS			
Nominal voltage (DC) (Operating Range)		48 V (40 - 60 V)	
Nominal current (at floating voltage and 400W output)		8.75 A ⁵	
Voltage ripple		<2 mV Psopho	
Input voltage boundaries		40 V to 60 V user selectable	
Connections		Terminal block ⁵	
AC OUTPUT SPECIFICATIONS			
Nominal voltage (AC*)		120 Vac L-N	
Frequency / frequency accuracy		50 or 60 Hz / 0.03 %	
Total harmonic distortion (resistive load)		< 1.5 %	
Load impact recovery time		0.4 ms	
Turn on delay		30 s	
Nominal current. Protected against reverse current		4.2 A ⁵	
Crest factor at nominal power with short circuit management and protection		2.0	
Short circuit clear up capacity when AC is not present		1.5 x I _n for 15 s	
Short circuit current after clear up capacity		4.62 A	
Connections		No.1 NEMA 5-15R receptacle	Terminal Block
ENERGY SOURCE CHANGEOVER			
Total transient voltage duration (max) (as seen from the load)		0 s	
Maintenance Bypass (MBP)		Optional	
SIGNALING & SUPERVISION			
Display		LED w/module status and power bargraph	
Alarms output / supervision		No 2 Dry Contacts (Maj, Min) located on the rear	
Remote Monitoring		None	
Remote on / off		On terminal block located on the rear	

Y-ONE 500 - 48/120 - No AC in - Datasheet - v1.0 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com.
The present equipment is protected by several international patents, trademarks and copyrights.



- *Operation within lower voltage networks leads to de-rating of power performances.
- 1 Derating is not UL certified.
- 2 Specific execution can be provided on request.
- 3 While the boost function is enabled AC source present.
- 4 Automatic temperature management and cut off.
- 5 Refer to specific document for NEC compliance for protections and cable sizing.

Illustrations are non-binding and may include customized fittings.