



MODULAR INVERTER SYSTEM

POWER 500 VA / 800 VA
INPUT 48 Vdc
OUTPUT 230 Vac / 120 Vac



DESCRIPTION

Compact and rugged the Y-ONE 500 VA DC/AC inverter is adapted for space limited applications in telecom, data-processing and utility industries.

Compatible with 19 in. or 23 in. equipment racks with only 1 RU high (1.75 in./ 44,45 mm). Y-ONE inverter delivers pure sine wave 230 Vac or 120 Vac, 50 or 60 Hz. The inverter can operate -20° C/+50° C without derating and up to 65° C with derating.

APPLICATIONS

All business critical applications and all types of AC loads. Ideal for user who need a few 100 VA to backup and/or high number of sites. The design is cost effective, installation easy.

Model available in rear terminal AC output and NEMA-R15 socket for 120 Vac model.

MAIN FEATURES

- »» Height 1U (1.75 in./44,45 mm)
- »» 40 to 60 Vdc input
- »» -20° C to 50° C full power operation (up to 65° C with derating)
- »» Rugged design for severe environments
- »» Short depth allow 300 mm rack integration

Y-ONE REG

	48 Vdc / 230 Vac / 500 VA REG	48 Vdc / 230 Vac / 800 VA REG	48 Vdc / 120 Vac / 500 VA REG
GENERAL			
Applicable Standards	EN60950 / ETS300132 / ETS300386 / RoHS6 / EN 55022 (A)		cULus 1778 Listed / IEC 1000-4 / FCC part 15 / ROHS / EN 55022 (A)
Cooling / Isolation	Forced		
MTBF	240 000 hrs		
Efficiency (Typical)	89 %		85.5 %
Dielectric strength DC/AC	4300 Vdc		
Vibration	GR63 office vibration 0 to 100 Hz-0,1g / transport vibration 5-100 Hz 0,5g 100 to 500 Hz-1,5g / 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	< 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		
AC OUTPUT POWER			
Nominal Output power (VA) / (W)	500 / 400	800 / 640	500 / 400
Short time overload capacity	150 % (15 s) 110 % permanent within T° range		
Admissible load power factor	0 lagging to 0 leading		
DC INPUT SPECIFICATIONS			
Nominal voltage (DC)	48 V		
Voltage range (DC)	40 - 60 V		
Nominal current (at 40 V and 400W (Y-one 500)/640W (Y-one 800) output)	11,2 A	18A	11,2
Maximum input current (for 15 sond)	17 A for 500 VA	27 A	17 A
Voltage ripple	≤ 2 mV phsopho according EN300 132-2 V2.2.1 from 25 Hz to 20 kHz		
AC OUTPUT SPECIFICATIONS			
Nominal voltage (AC)	230 V		120 V
Frequency / frequency accuracy	50 or 60 Hz / +/- 0.01 %		
Overload capacity	150 % (15 s) 110 % permanent within T° range		
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	3.5 A	4.17 A
Crest factor at nominal power With short circuit management and protection	2.8:1		
Connection	Screw Terminal for AC, DC, Alarm		Screw terminal for DC and alarm, NEMA R-15 for AC out
Short circuit current	4,6 A during 15 s	9,2 A during 15 s	8,8 A during 15 s
SIGNALING & SUPERVISION			
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		

250 mm / 9.8"

