



Telecommunications



Data centers



Industries



Renewable

## STAND-ALONE INVERTER SYSTEM Y-ONE 1500

INVCETYONE1500



### DESCRIPTION

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

An additional AC input is used under normal conditions to achieve an overall conversion efficiency of 94%. In the event of a grid failure, it automatically switches to the DC to secure the loads.

With modules in place for many years, the Y-One is extremely reliable. This module is offered with both IEC or bulk connections.

### APPLICATIONS

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

### MAIN FEATURES

- Extra AC input for increased efficiency
- High reliability
- No disturbances on DC loads & batteries
- Easy maintenance



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## INVCETYONE1500

### SPECIFICATIONS

	INVCETYONE1500
<b>GENERAL</b>	
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 (Typical): Enhanced power conversion / on line	94% / 90%
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 of ce 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)	1500 / 1200
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 1200 W)	33 A
Maximum input current (for 15 second) / voltage ripple	50 A / 2 mV PSO
Input voltage boundaries	N/A
<b>AC INPUT SPECIFICATIONS</b>	
Nominal voltage (AC)	230 V
Voltage range (AC)	150 - 265 V
Brownout	150 to 185 V linear derating 1200 VA @ 150 Vac
Conformity range before transfer to DC	Adjustable
Power factor	> 99%
Frequency range (selectable) / synchronization range	50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz

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## AC OUTPUT SPECIFICATIONS

Nominal voltage (AC*)	230 V
Frequency / frequency accuracy	50 or 60 Hz / $\pm 0.01$ %
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	6.5 A
Crest factor at nominal power	2.8 : 1
With short circuit management and protection	
Short circuit current capacity	2.1 In during 15 s and 1.5 In after 15 s

## TRANSFER TIME PERFORMANCE AC to DC and DC to AC

Max. voltage interruption / total transient voltage duration (max)	0 ms / 0 ms
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## 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

