Model: FCP300-UA-FXT-T2233

COSD: XXXX

Summary description: 300VA Rugged Frequency Converter

Universal AC with PFC to 115Vac/60Hz

Customer Name: ONRION/NJ Customer Part Number: Same as above

Product description:

This rugged AC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage. The AC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output. The use of high frequency conversion enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise. Cooling is via baseplate to a heatsinking surface and by natural convection. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: PFC input with universal range. Conformal coating



Input Voltage

95-264Vac universal 47-420Hz

Input Current: 4A max

Power factor is min 0.97 at full load

for the entire input range

Input Protection

Inrush current limiting

Varistor

Internal safety fuse

Lower voltage than the specified minimum will not damage the unit

Isolation

2250Vdc input to chassis 4300Vdc input to output

8mm spacing

2250Vdc output to chassis

Standards

C22.2 No. 107.1 - 01, UL 458, EN60950-1

EMI

EN 55022 Class A with margins

Output Voltage

115Vac / 2.6Arms / 60Hz 300VA continuous

Output is floating, either terminal

can be grounded

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

Maximum \pm 2% from no load

to full load.

Load Crest Factor

Maximum 2 at 90% load

Output Protection

Current limiting with short circuit

protection

Thermal shutdown with automatic recovery in case of insufficient

cooling

Efficiency

80% at full load

Operating Temperature Range

 0° C to $+50^{\circ}$ C

Temperature Drift

0.05% per °C over operating

temperature range

Cooling

Conduction via base plate to customer heatsink or chassis and by natural

convection

Environmental Protection

Basic ruggedizing Conformal coating

Shock/Vibration

IEC 61373 Cat1 A&B

ile 01373 cati 7te

Terminal Block Pin-out

115VAC OUTPUT								AC INPUT				
NOT USED	٦ ک	22 2	NOT USED	휸	NOT USED	NOT USED	NOT USED	NOT USED	ήg	≥ ?	₹?	
1	2	3	4	- 5	6	7	8	0	10	- 11	12	

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Humidity

5 - 95% non-condensing

MTBF

110 000 hours at 45°C

Demonstrated MTBF is significantly

higher.

Indicators

None

Control Input

None

Alarm Output

Not installed

Package/Dimensions (WxHxL)

FX: 152 x 67 x 357mm (6" x 2.6" x 14")

Mounting holes are clear

Weight

2.2 kg (5 lbs)

Connections

12-pole barrier type terminal block with

3/8" spacing

RoHS Compliance

Not required but accepted

Warranty

Two years subject to application within good engineering practice

Originated by NH	Date April 23, 2018
Updated by	Drawing No./ Rev. SCD T2233-1A
Approved by	ABSOPULSE