

Unit 111, Dunston Innovation Centre Chesterfield, S41 8NG, U.K.

T e I: + 44 (0) 1246 452909 F a x: + 44 (0) 1246 452942 W e b: w w w . e t p s . c o . u k Email: sales@etps.co.uk Sales: 0800 612 95 75

CON-900WC

Ultra Capacitor Charger

Description

This wall mounting DC/DC converter operates from a 24VDC input and provides an isolated and floating output, which can be programmed between 10- 30V. The unit has been designed to recharge and operate with Ultra Caps UPS systems used in critical applications, where uncontrolled loss of output is not an option. The powerful software suite provided with the unit allows the user to monitor the Vset, Vout, lout converter temperature, UV, OV, OT warning and OT alarm. The following parameters can be set; OVP, UVP, V max, V hold, I limit and V reset. The units are protected to IP 54 and can operate in ambient temperatures of -40° C to + 70° C. The converters can be further ruggerdized with the addition of conformal coating and the securing of the larger components. The units are suitable for many applications including Rail, Industrial and Telecom.



- Extended operating temperature range
- Control & monitoring software
- Wide DC input voltage range
- Volt free alarm contacts
- Rugged construction
- Convection cooled
- Stainless steal case

<75% average per year

According to EN 50155

Below transit frequency: 7.5mm

Above transit frequency: 20m/s²

Technical Data

Relative Humidity

Shock & Vibration

Amplitude Acceleration

Amplitude

General	
Electrical Safety	EN 60950, VDE 0805 (Overload & Shortcircuit protected)
Input DC	
Nominal Voltage	24 (16 - 32) VDC
Output (Ultracapacitor Charging)	
Nominal Voltage	29.5VDC (10 - 30V programmable)
Recharge Voltage	27.5VDC (17.5 - 29.5V programmable)
Stability	±1%
Efficiency	>85%
Maximum Output Power	900W
Output Current	30A
Current Limitation	Constant current, without disconnection, but temperature limited
Ultracapacitor Protection	
Ultracapacitor Protection	Two-stage, redundant and adjustable OVP (Via software) 31V hardware OVP
Environmental Conditions	
Ambient Temperature	-40°C to +70°C, according to EN 50155





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Technical Data (continued)

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Input 500V
Output 500V
Input to Output 1500V

EMC

Burst According to EN 50121-3-2, 2kV criteria A, direct coupled

Surge 1.8kV/source 100 , 1.0kV/source 2

Conductive HF 3Vrms 1kHz AM, 80%, 150kHz - 80MHz

ESD 8kV air, 6kV contact

Emitted Disturbance Immunity 10V/m 80MHz - 1GHz, 80% AM, 900MHz pulse modulated

Conductive Disturbance Emitted 99dBμV OP 150kHz - 500kHz, 93dBμV 500kHz - 30MHz

20 - 230MHz 47 dBμV/m QP, 230MHz - 1GHz 40 dBμV/m QP (10m measuring distance)

Signals

Temperature Sensor (0 - 10VDC full scale) current limited by Poly-Switch 0.1A, RXE 010

Alarm Contact Potential free contacts, output good for OV, UV and OT

Mechanical Data

Case Material
Dimensions
Weight
Classification
Cooling
Protection
Connections

Stainless steel

270 x 115 x 255mm (W x H x D)

Approx. 6.5kg

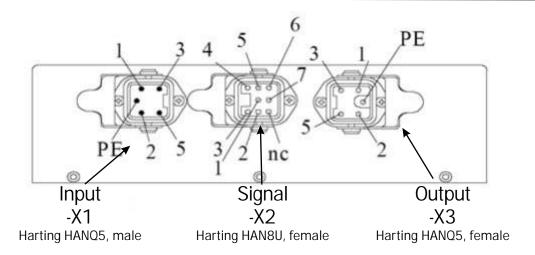
IP54

Convection via heat sink on wall side

Overload, short-circuit, OVP, UVP, OT, reverse polarity for input signal

RS232, Female SUBD 9Pin connector

Connection Data



Input -X1

1	Input voltage reference OV
2	Input voltage reference OV
3	Input voltage positive +U _№
5	Input voltage positive +U.,

Signal -X2

Signal -nz		
2	Measurement voltage converter output reference (I<100mA)	
3	Measurement voltage converter output positive (I<100mA)	
4	Not connected	
5	Not connected	
6	Alarm normal open (NO)	
7	Alarm normal close (NC)	
1	Alarm common (C)	

Output -X3

1	Output voltage reference OV
2	Output voltage reference OV
3	Output voltage positive +U _{out}
5	Output voltage positive +U _{out}