

Model: HVI 800-700W/28F6T-T6468

COSD: XXXX

**Summary description: 800W peak Industrial Quality DC/DC Charger
550-850Vdc to 28Vdc/14.3A**

Customer Name: Inkom/Sweden

Customer Part Number: Same as above



Product description:

This rugged, industrial quality power converter utilizes field-proven HVI 2500 to generate the required output power. It is a mature design with a track record in numerous applications. Cooling is by conduction via the baseplate. All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This also ensures exceptional mechanical ruggedness. Conformal coating provides protection against humidity and airborne contaminants. Full electronic protection, low component count, large design headrooms and the exclusive use of components with established reliability contribute to a high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: 550-850Vdc input. Conformal coating -20°C to 80°C, 4000m above sea level. Unit is used for charging batteries

SPECIFICATIONS

Input Voltage

850Vdc nominal
550-850Vdc operating range
Input current: 1.6A max

Input Protection

Inrush current limiting
Varistor
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit

Input Isolation

3500Vdc input to chassis
5200Vdc input to output
500Vdc output to chassis

Standards

Designed to meet UL1741

EMI

EN55032 Class A with margins

Switching Frequency

55kHz ±3kHz

Output Voltage/Current

28Vdc ± 0.3V/14.3A continuous
Output is floating, either terminal can be grounded

Redundancy diode

Installed internally

Line/Load Regulation

+ 1% combined from zero load to full load including redundancy diode

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Better than 80mVrms, 400mVpp (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection
Current Limit: 15A ±0.6A

Output Overvoltage Protection

Double regulator loop
OVP setting: 32V ± 2V

Efficiency

88% at full load

Operating Temperature Range

-20°C to +80°C baseplate temperature for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction via baseplate and also convection

Environmental Protection

Basic ruggedizing
Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5-95% non-condensing

MTBF

120,000 hours @45°C

Indicators

Green "output ON" LED visible through the cooling slots.

Control Input

None

Alarm Output

Not installed (TBD)

Package / Dimensions (WxHxL)

F6: 210 x 64 x 365mm
(8.3" x 2.5" x 14")
Mounting holes are clear

Weight

3.2kg (7 lbs)

Connections

Input: 3-pole shrouded terminal block, Phoenix
Output: 12-pole terminal block, 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

DC OUTPUT									850VDC INPUT					
+	+	+	+	NOT USED	-	-	-	-	NOT USED	NOT USED	NOT USED	GND	-	+
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3

Drawn by TS/sa	Date December 17, 2019
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Approved by TS	

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