

MD143-RX-1-24V

FEATURES

Input voltage

16÷36Vdc (14,4÷40Vdc for transient <=100ms)

Efficiency

83% typ.

Input protections

- RFI filter
- Input fuse
- Reverse polarity

See table for

- Output Nominal power
- Output voltages and currents
- Line and load regulation
- Output ripple and noise

Output protections

- Over load protection
- Short circuit protection
- Over voltage protection

Output signals

- Sense1+

- Sense1-

- R

- Out_OK+

- Out_OK-

- Inhibit (connect to Vi- to enable outputs)

Operating indicators

- Led 1 : Vin (Battery input presence)

- Led 2 : +5 V (Output Vo1 presence)

- Led 3 : ±12 V (Output Vo2 and Vo3 presence)

Operating temperature

-25° ÷ +85°C

Storage temperature

-40°C ÷ +85°C

Humidity

< 75% (95% for 30 consecutive days)

Dielectric withstand voltage

- Inputs - (Outputs+Out ok+P.E.) = 1500Vdc

- (Inputs+Outputs+Out ok) - P.E. = 500Vdc

- Out ok - (Inputs+Outputs+P.E.) = 750Vdc

Comply with

- EN50155

- EN50121-3-2

- EN50125-1 (T3 class)

- FSST306158

- IP 40 for ambiantal protection

- EN 60068-2-2 NORM

- HD 323.2.30

- NF C 20-714 NORM

- CEI 801.4

- EN60950

Connections

DIN 41612 H15

MTBF

70000 hours MIL-HDBK-217 Notice F

(GM -50°C)

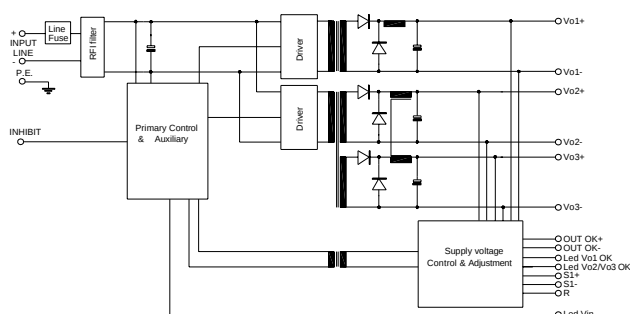
Altitude

1800 mt Max

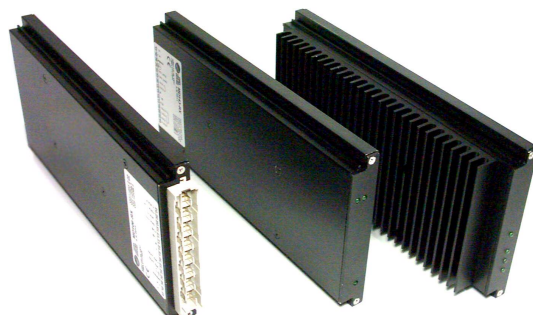
FEATURES TABLE

Output Power W	Output	Vout V	Iout A	Imin A	Imax A	Line regulation VIN(min÷max) %	Load regulation (20÷100%) %	Ripple & Noise (0÷100KHz) mVpp
122 (Nom.)	Vo1	5.1	12	0	13.1	< ±0.1	< ±1	< 50
	Vo2	12.06	2.5	0.5	2.7	< ±0.1	< ±1.5	< 100
	Vo3	12.06	2.5	0.5	2.7	< ±0.1	< ±5	< 100

BLOCK DIAGRAM



RAILWAY POWER CONVERSION GROUP VIEW

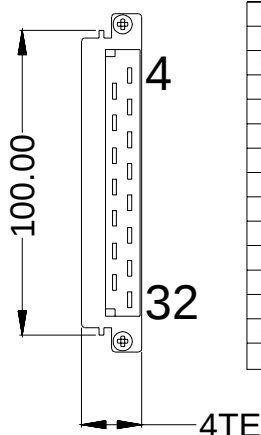
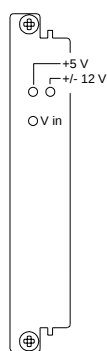


DIMENSIONS AND CONNECTIONS

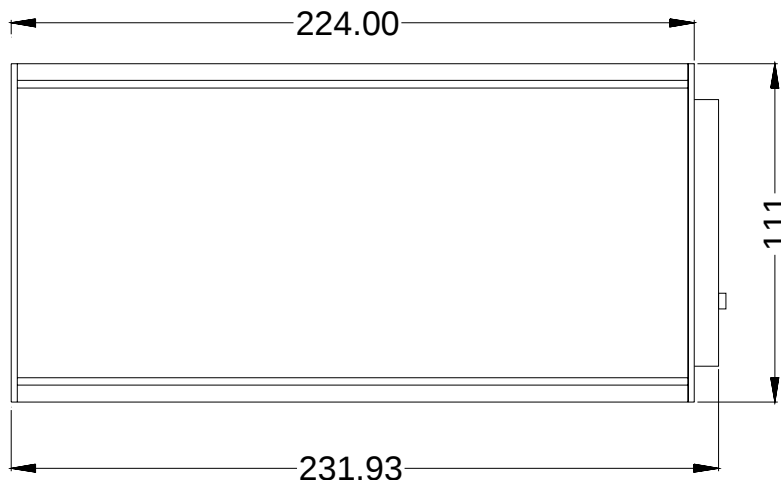
FRONT VIEW

REAR VIEW

SIDE VIEW



04	Vo1+
06	Vo2+
08	Vo1-
10	Vo2-
12	S1+
14	S1-
16	R
18	Vo3+
20	Vo3-
22	Out OK+
24	Out OK-
26	GND
28	Inhibit
30	Vi+
32	Vi-



AZIENDA CERTIFICATA



Note: all features are subject to change without notice.

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