

SD206-IX

Railway Application
Single output DC-DC converter with I/O isolation
Signaling Equipment

FEATURES

Input voltage

77÷138Vdc (cont.)
66÷154Vdc (trans.)

Efficiency

87% typ. (Vin=110Vdc and Iout=8A)

Input protections

- Input line fuse T 6.3A
- Diode against Input voltage polarity inversion
- Inrush current limitation ≤10A

See table for

- Output voltage and current
- Line and load regulation
- Ripple and noise

Output protections

- Over current protection at 100÷120% I_{max}
- Short circuit protection (manual restart)

- Over voltage protection at 1,2÷1,35 V_{nom}
- Over temperature protection at 95°÷105°C

Output power

240W_{max}

Operating indicators

- Green led is ON when V_{out} > 19V, while it is OFF when V_{out} < 17V

Operating temperature

-25°C to 70°C

Storage temperature

-40°C to 85°C

Dielectric withstand voltage

- Input - Output: 1500Vdc

Isolation

- Output - P.E. : R > 100MΩ

Comply with

- EN50155
- ST306158
- EN 60950
- CE

Parallel connection

With output decoupling diode

ALARM SIGNALS

Relay contacts are CLOSE when V_{out} > 19V, while they are OPEN when V_{out} < 17V

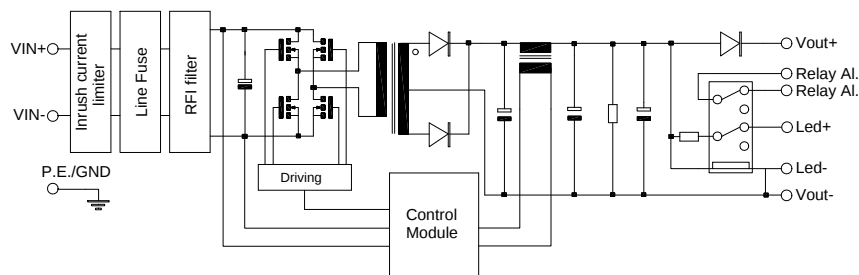
Cooling

Natural convection at 50°C and forced ventilation at 70°C (T_{case}-T_{amb} < 10°C) at I_{out}=8A

FEATURES TABLE

Vout Volts	Iout Ampere	Imin Ampere	Imax Ampere	Line & load regulation VIN(min÷max) Load(10÷100%) %	Ripple & Noise (0÷20MHz) mV
24	8	0.5	10	±10	150

BLOCK DIAGRAM

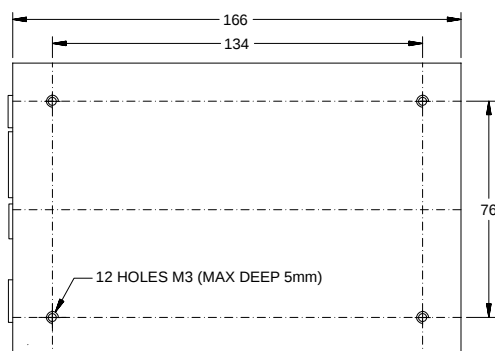


POWER SUPPLY VIEW

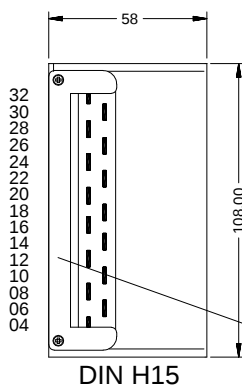


DIMENSIONS AND CONNECTIONS

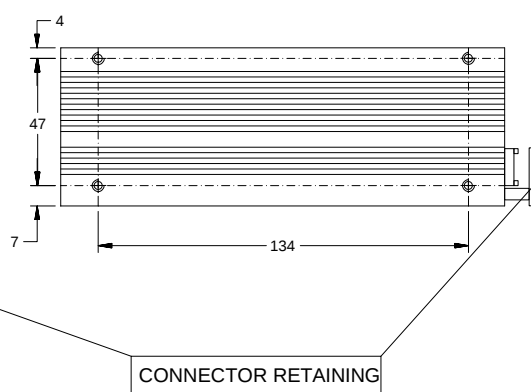
bottom view



front view



side view



4)Vout + 6)Vout + 8)Vout + 10)Vout - 12)Vout - 14)Vout - 16)Led - 18)Led +
20)Relay Alarm COM 22)Relay Alarm N.O. 24)N.c. 26)N.c. 28)Vin + 30)Vin - 32)P.E.

AZIENDA CERTIFICATA



Note: all features are subject to change without notice.

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