

RWY200 SERIES

Rail DC/ DC Converters Single Output: 200 Watts



General Specifications

Input Voltage	24VDC (14.4 ~ 34) 36VDC (22 ~ 51) 48VDC (28 ~ 67) 72VDC (43 ~ 101) 96VDC (58 ~ 135) 110VDC (66 ~ 154)
	• Other voltages on request
Input Protection	Reverse polarity protection. Inrush current limiting Lower voltage than specified will not damage unit
Isolation	Input - Output 3000vdc Input – Chassis 1500vdc Output – Chassis 1500vdc
Efficiency	Model dependent , typically 80-90%
Output voltage	See tables
Output Power	200 watts
Voltage Adjust.	Fixed output
Immunity	EN50155 & EN50121-3-2 EN61000-4-2 ESD EN61000-4-3 RF Immunity EN61000-4-4 Fast Transients EN50155 Surge & Voltage variations EN61000-4-6 Conducted Immunity
EMI	EN5022 Class B Conducted & Radiated
Switching Freq.	80kHz ±5kHz
Regulation	±1% Line / Load combined
Dynamic Response	Max ±5% deviation for 10% - 50% load step with 1msec recovery
Ripple & Noise	Typically 1% pk-pk or 0.2% RMS of output voltage (20MHZ BW)
Overload Protection	Rectangular current limiting, with hiccup type short-circuit protection
Overvoltage Protection	Second regulator loop, independent of main regulator loop
Operating Temp.	-40°C to +70°C cold plate temperature
Cooling	Conduction cooling via base plate to customer chassis or heatsink
Environmental Protection	Full encapsulation with thermally conductive silicon potting with UL94V-0 rated
Shock & Vibration	IEC61373 Cat 1 A & B and Cat 2
Humidity	5-95% non-condensing, higher ration option
MTBF	>150,000 hrs

Features

- Designed to rail standards EN50155 & EN50121
- Fully potted with thermally conductive MIL-Spec silicon rubber compound.
- Rugged design for on-board train applications
- Wide input voltage range
- Convection / Conduction cooled: No fans
- Fully isolated input – output 3000VDC
- Over voltage protection
- Overload and short circuit protection
- MTBF > 150,000hrs
- Specials input / output combinations on request.

Description

The **RWY200** series dc/dc converters are designed for use on Rail Rolling Stock and for many extremely harsh environments.

They are fully potted with a thermally conductive MIL-Spec silicon compound, meeting a high level of shock and vibration.

The table below illustrate the most common output voltages, but can also be manufactured to special input & output specifications with total flexibility to match customer requirements.

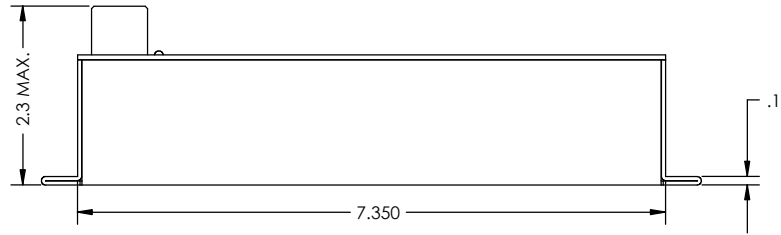
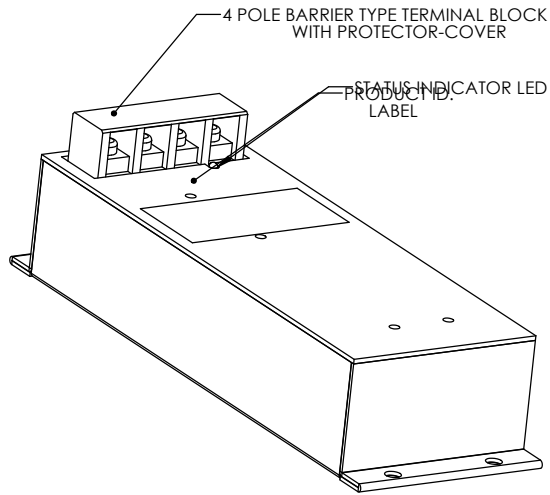
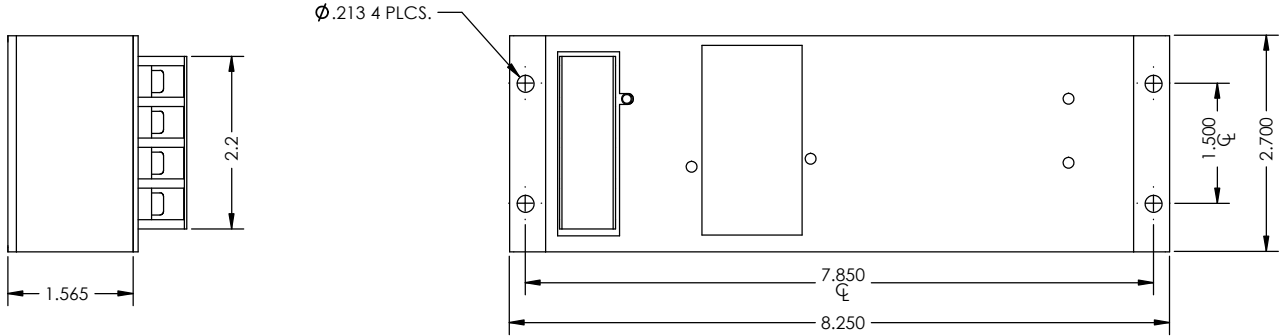
Model	Output		Power W
	V	A	
RWY200	5V	30A	200W
	12V	16A	
	24V	8A	
	Other outputs upon request		

- Final part numbers will be factory allocated to reflect customer input & output requirements.

LED / Indicator	Optional
Alarm output	Optional on some models
Connector	5 pole barrier-type terminal block with 3/8"spacing. (optional cover)
Dimensions	69 x 58 x 210mm (P200) W x H x L (includes terminal block & mounting flanges)
Weight	1.0kg

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
DECIMALS: XXX ± 0.008"
 XX ± 0.012"
 X ± 0.015"
ANGLES: ± 2°
FRACTIONS: ± 1/64"
UNLESS OTHERWISE STATED
EDGES & HOLES DEBURRED
SURFACES FREE OF SCRATCHES

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Title:	
Part of:	OUTLINE DRAWING
	P200 Package
	FEB.10.05



CASE MATERIAL: ALUMINUM
FINISH: CLEAR IRIDATED
THE UNIT IS FULLY POTTED WITH SILICONE COMPOSITE POTTING COMPOUND