RWY259 SERIES







General Specifications

Contra Opecinio		
Input Voltage		6VDC (22~51)
		2VDC (43~101)
	96VDC (58 ~ 135) 1 '	10VDC (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	$250 \sim 300$ watts depending in input / output combination	
Voltage Adjust.	Fixed output	
Immunity	EN50155 & EN50121-3-2 EN61000-4-2 ESD EN61000-4-3 RF Immunity EN61000-4-4 Fast Transie EN50155 Surge & Volta EN61000-4-6 Conducted I	nts age variations
ЕМІ	EN5022 Class B Conducted & Radiated	
Switching Freq.	55kHz ±5kHz	
Regulation	±1% Line / Load combined	
Dynamic Response	Max $\pm 5\%$ diviation for 10% - 50% load step wuth 1msec recovery	
Ripple & Noise	Typically 1% pk-pk or 0.2% RMS of output voltage (20MHZ BW)	
Overload Protection	Rectanular current limiting (no hiccup type) short-circuit protection	
Overvoltage Protection	Second regulator loop, independent of main regular 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
- 250 ~ 300 watts depending on input / output combination
- 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 **RWY259** 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 le vel 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 fl exibility to match customer requirements.

Model	Standard Outputs	Power W
	5V	150W
RWY259	12V 24V 36V 48V 72V	250 ~ 300W

• Output power is dependent on input / output voltage combination.

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

LED / Indicator	Optional on some models	
Alarm output	Optional on some models	
Connector	9 pole barrier-type terminal block with 3/8″spacing. (optional cover)	
Dimensions	$\begin{array}{llllllllllllllllllllllllllllllllllll$	
Weight	1.5kg	