### **Features**

# Regulated Converters

- High Output Voltage DIP24 converter
- Improved Version of Rxx-100\_150A Series with higher efficiency and reduced ripple.
- Input Voltage 5, 12, 15 or 24VDC
- Adjustable Output Voltage up to 210VDC
- Cascadeable for Output Voltages up to 420VDC
- 3kVDC Input/Output Isolation
- Remote Voltage Programming by External Voltage or Resistance
- Continuous Short Circuit Protection
- Ambient Temperature up to +85°C

#### **Selection Guide** Input Output Max Output Efficiency Part Range Voltage Range Current at Full Load Number DIP 24 (VDC) (VDC) (mA) (%) R05-100B 5(4.5-6)+40...+120 25 77 +55...+135 R12-100B 12(10-14)50 82 R15-100B 15(14-17)+55...+135 50 82 24(21-27)R24-100B +55...+135 50 84 R12-150B 12(10-14)+95...+210 50 82 15(14-17)+95...+210 R15-150B 50 82 R24-150B 24(21-27)+95...+210 50 84

#### **Specifications** (typical at 25°C, nominal input voltage, full load unless otherwise specified)

Input Valtaga Panga		5 10 15 or 04VDC
Input Voltage Range Rated Power	5V	5, 12, 15 or 24VDC 25mA max. or 3 Watts max.
Raleu Powei	All others	50mA max. or 5 Watts max.
	All others	
Output Voltage Adjustment Range		55135 or 95210VDC
Output Voltage Accuracy		±5% max
Line Voltage Regulation		0.5% max
Load Voltage Regulation	20% to 100% full load	0.5% max
Output Ripple and Noise	20MHz limited	60mVp-p typ.
Operating Frequency		200kHz typ.
Efficiency at Full Load		80 ~ 86% typ.
Isolation Voltage (tested for 1 second)		3000VDC min.
Isolation Capacitance		20pF typ.
Isolation Resistance		1 GΩ min.
Short Circuit Protection		Continuous, Automatic Restart
Short Circuit Input Current		30mA typ.
Temperature Coefficient		±0.02%/°C
Operating Temperature Range	With derating	-40°C to +85°C
(free air convection)	Full Power	-40°C to +70°C
Storage Temperature Range		-50°C to +125°C
MTBF (25°C)	Mil-Std 217F	1.4 x 10 <sup>3</sup> khours
Output Voltage Adjust	External Voltage	0 - 4VDC
	External Resistor	0 - 5kΩ
Internal Voltage Reference	Regulate	ed 5V with 1kΩ series resistor

### **INNOLINE**

DC/DC-Converter with 3 year Warranty



## 5 Watt Single Output

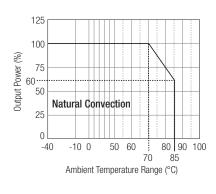






### **Derating Graph**

(Ambient Temperature)

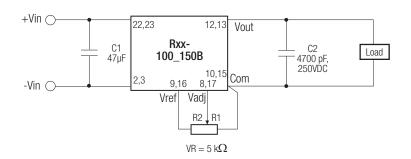


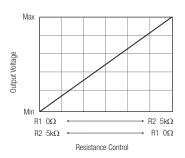
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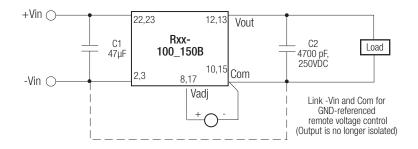
# Rxx-100\_150B Series

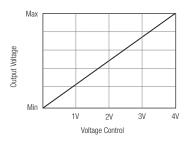
#### **Typical Applications**

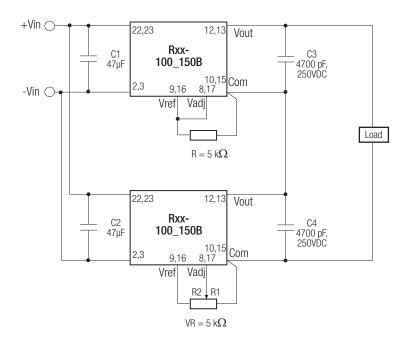




### For remote voltage control







#### **Cascade Combinations**

U1	U2	Vout Range
R05-100B	R05-100B	160-240
Rxx-100B	Rxx-100B	190~270
Rxx-150B	Rxx-100B	230~345
Rxx-150B	Rxx-150B	305~420
xx = 12, 15	or 24	

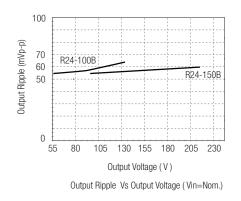
Note: When cascaded, only one Rxx-A may be adjustable, the other must be fixed voltage.



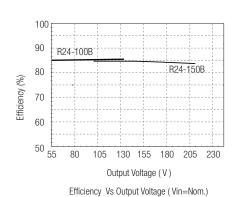
# Rxx-100\_150B Series

### **Typical Characteristics**

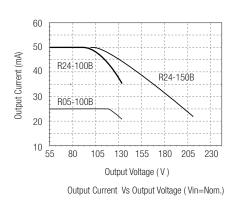
R24-100B \_ R24-150B



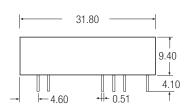
R24-100B \_ R24-150B

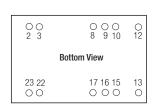


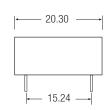
**Power Limit** 

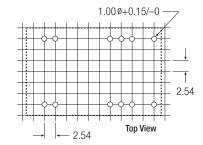


### **Package Style and Pinning**











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Pin Connections			
Pin #	Out		
2,3	-Vin		
3,17	Vadj		
),16	V ref		
0,15	-Vout		
2,13	+Vout		
22,23	+Vin		
XX.X ± 0.5 mm			