



M647 SERIES



PRODUCT HIGHLIGHTS

- MINIATURE
- HIGH DENSITY
- TRIPLE OUTPUT
- DC/DC POWER SUPPLY
- UP TO 20 W







APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

- Miniature size
- High efficiency
- Wide input range
- Input / Output isolation
- <u>Fixed</u> switching frequency (250 KHz)
- <u>EMI/RFI</u> filters included
- Indefinite short circuit protection with autorecovery
- Input over-voltage shutdown with autorecovery
- Over temperature shutdown with auto-recovery

ELECTRICAL SPECIFICATIONS

DC INPUT

DC Input range: 18 to 36 VDC Input transient protection: All models meet or exceed (no damage) MIL-STD-1275 (100V for 50 mSec) & MIL-STD-704A, MIL-STD-704D (80V for 0.1 Sec) Over-voltage shutdown with auto recovery Efficiency: 75%, Typical (up to 85%) EMI/RFI: Designed to meet MIL-STD-461C - CS01, CS02, CE03, RS02 & RS03, MIL-STD-461D - CE102-16 Isolation: 100V between Input and Outputs 100V between Input and Case

ENVIRONMENTAL

Meets or exceeds MIL-STD-810D **Temperature:** Operating: -55°C to +85°C (baseplate) Storage: 55°C to +125°C

RELIABILITY

150,000 hours, calculated per MIL-STD-217F at +85°C baseplate, ground fixed

DC OUTPUT (floating)

Line/Load regulation: Less than 2% (no load to full load, -55°C to +85°C) **Ripple and Noise:** 50mVp-p, typical (max. 1%) **Current limiting (Foldback):** Continuous protection for unlimited time **Over voltage protection:** Passive tranzorb on output. **Over temperature protection:** Automatic Thermal Shutdown with Automatic recovery for each output. **Isolation:** 100V between Outputs and Input 100V between Output and Case





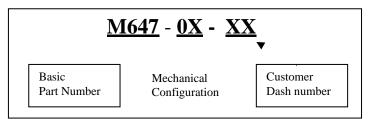


PIN ASSIGNMENT

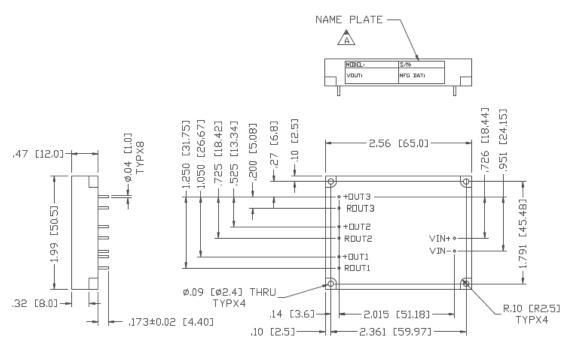
PIN NO.	PIN FUNCTION
1	VIN +
2	VIN -
3	ROUT 1
4	OUT 1 +

PIN NO.	PIN FUNCTION
5	ROUT 2
6	OUT 2 +
7	ROUT 3
8	OUT 3 +

PART NUMBERING



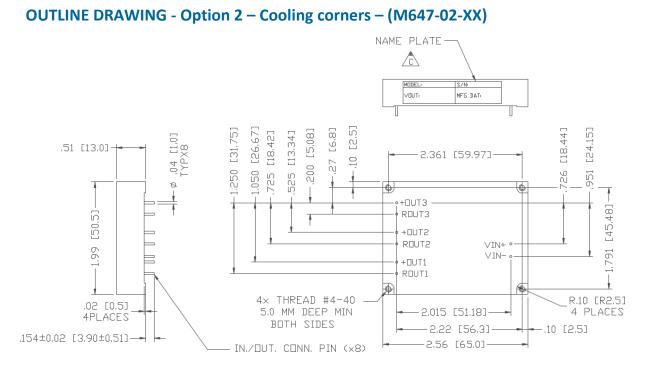
OUTLINE DRAWING - Option 1 – Baseplate cooling – (M647-01-XX)











* Specifications are subject to change without prior notice by the manufacturer

