









FEATURES

- High efficiency: 88.5% @ 3.3V/12A &
 1 2V/25A
- Size: 57.9mm×36.8mm×9.7 mm
 (2.28" ×1.45" ×0.38")
- Industry standard footprint and pinout
- Flexible current allocation on each output
- Low voltage output (O/P 2) starts up first
- Output 2 can be adjusted (trim)
- Fixed frequency operation
- Input UVLO, Output OCP, OVP, OTP
- No minimum load required
- 1500V Isolation and basic insulation
- ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- UL/cUL 60950-1 (US & Canada), and TUV (EN60950-1) - pending

OPTIONS

- Positive On/Off logic
- Heatsink available for extended operation

APPLICATIONS

- Telecom / DataCom
- Wireless networks
- Optical network equipment
- Server and data storage
- Industrial / Test Equipment



SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS			
Input Voltage		36~75V	Voltage Accuracy	Typical	±1.5%	
Switching Frequency	Typical (3.3V)	350KHz	Line Regulation	Typical	±0.5%	
Isolation Voltage	In/Out	1500V	Load Regulation	Typical	±1.5%	
Isolation Capacitance	Typical	1500 pF	Ripple & Noise	Typical	50 mV	
Isolation Resistance	Minimum	10M Ohms	Current Limits	Typical	140%	
MTBF	Bellcore (3.3V)	TBD	Over Voltage	Typical	135%	
Size	(2.28" ×1.45" ×0.38")	57.9 x 36.8 x 9.7 mm	Voltage Trim	For Vout2	±10%	

PART NUMBERING SYSTEM

Q	48	D	M	3R3	12	N	N	F	Α
Product	Input	Number of	Product	Output	Output	ON/OFF	Pin		Option Code
Туре	Voltage	Outputs	Series	Voltage 1	Voltage 2	Logic	Length		-
Q - Quarter Brick	48V	D - Dual Output	M - 75W Platform	3R3 - 3.3V	12 - 1.2V	N - Negative P - Positive	N - 0.150" R - 0.170"	F - RoHS 6/6 (Lead Free)	A - Standard Functions

MODEL LIST

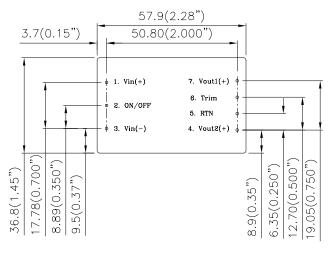
MODEL NAME INPUT		OUTPUT *		EFF @ Full Load	
Q48DM3R312NN A	36V~75V	2.4A	3.3V/12A	1.2V/25A	88.5%

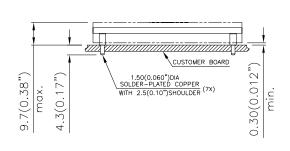
^{*} Note: Total output power should not exceed 75 watts and maximum output current for high output is 12A, for low output is 25A.

MECHANICAL DRAWING

TOP VIEW

SIDE VIEW





NOTES:

DIMENSIONS ARE IN MILLIMETERS AND (INCHES) TOLERANCES: $X.Xmm \pm 0.5mm(X.XX in. \pm 0.02 in.)$ $X.XXmm\pm0.25mm(X.XXX in.\pm0.010 in.)$

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