

PRODUCT FEATURES

- Higher Operating Temperature
- Input Under and Overvoltage Lockout
- Continuous Short Circuit Protection
- 1000VDC I/O Isolation Voltage
- New 2" x 3" Package (fits 3" x 3" pin out)
- 100°C Baseplate Temp.
- Single, Dual and Triple Outputs
- Vout Trim and ON/OFF Control
- Thermal protection
- UL1950, EN60950 (designed to meet)

THE QAW SERIES FROM WALL INDUSTRIES

The QAW Series allows higher power density with higher efficiency while maintaining an industrial standard pinout configuration. With this series, the designer can retrofit the converter on existing designs as well as making use of the smaller package size on new designs.



SPECIFICATIONS: QAW SERIES

INPUT SPECIFICATIONS

Input Voltage Range.....	9-36 and 18-75VDC
Nominal Input.....	24 or 48VDC
Input Filter.....	Pi-Input Filter
Input Reflected Ripple.....	200mA p-p
Remote On/Off.....	Open Collector TTL
UV LO (9-36) 8.5V.....	(18-75V) 17V
OV LO (9-36) 40V.....	(18-75V I) 80V

OUTPUT SPECIFICATIONS

Output Current.....	See Table
Voltage Tolerance.....	±1%
Line Regulation(LL-HL).....	±0.5%
Load Regulation.....	±0.5%
Short Circuit Protection.....	Continuous
Overvoltage Protection.....	Clamp
Ripple/Noise	60(typical) 100mV p-p(max)
Transient Response.....	300μ sec to ±1.5% max.
External Trim.....	±5%
Current Limiting.....	Continuous Auto Recovery

GENERAL SPECIFICATIONS

Efficiency.....	up to 85% typical
Isolation Voltage, input to output.....	1000VDC min.
Isolation Resistance.....	1k MOhms
Switching Frequency.....	200kHz Typical
Thermal Overload.....	+110°C baseplate, self-resetting
Minimum Load.....	None required

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....	-40°C to +100°C(baseplate)
Storage Temperature.....	-55°C to +105°C
Humidity.....	5% to 100%
Temperature Coefficient.....	±0.02%/°C typical

PHYSICAL SPECIFICATIONS

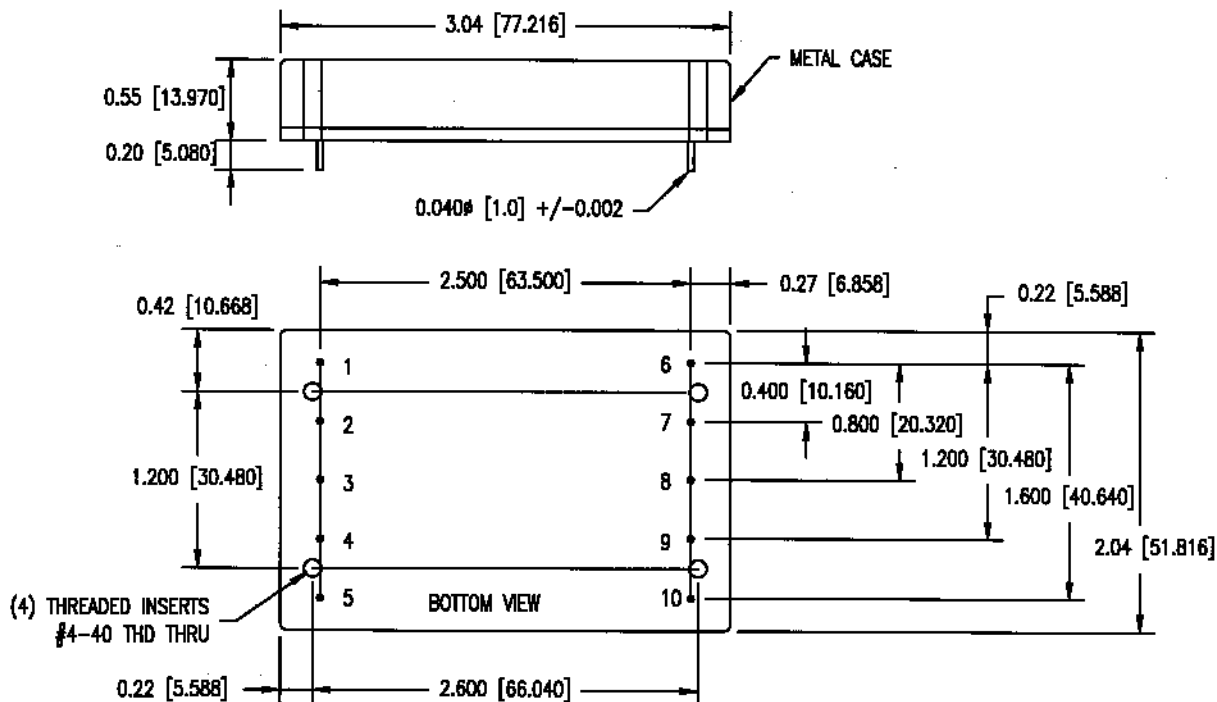
Package size.....	2.04" X 3.04" X 0.55"
Weight.....	6 oz.
Case Material.....	metal base/ plastic cover

All specifications apply at +25°C ambient unless otherwise noted.

Input Voltage	Output Voltage	Output Current Amps	Output Current Watts	Model Number
9-36	5	8.0	40	QAW24S5-40
	12	3.3	40	QAW24S12-40
	15	2.66	40	QAW24S15-40
	18	2.22	40	QAW24S18-40
	±12	±1.66	40	QAW24D12-40
	±15	±1.33	40	QAW24D15-40
	5/±12	4.0/±.833	40	QAW24T12-40
	5/±15	4.0/±.667	40	QAW24T15-40
18-75	5	8.0	40	QAW48S5-40
	12	3.3	40	QAW48S12-40
	15	2.66	40	QAW48S15-40
	18	2.22	40	QAW48S18-40
	±12	±1.66	40	QAW48D12-40
	±15	±1.33	40	QAW48D15-40
	5/±12	4.0/±.833	40	QAW48T12-40
	5/±15	4.0/±.667	40	QAW48T15-40

Notes:

1. Auto off power train protection.
2. Measured with a 0.1uF across output.
3. Heatsinks available, consult factory.
4. Application notes on Thermal Management and External Trim available, consult factory.
5. Case and pin-to-case measurements for reference only unless noted otherwise.



DIMS: IN [MM]

case and pin-to-case measurements for reference only unless otherwise noted.

Pin Connection

Single

1. No Pin
2. -Input
3. +Input
4. Case
5. On/Off Control
6. No Pin
7. No Pin
8. Common
9. +Vout
10. Trim

Dual

- No Pin
- Input
- +Input
- Case
- On/Off Remote
- Vout
- No Pin
- Common
- +Vout
- Trim

Triple

- No Pin
- Input
- +Input
- Case
- On/Off Remote
- 12V/15Vout
- +12V/15Vout
- Common
- +Vout
- Trim