



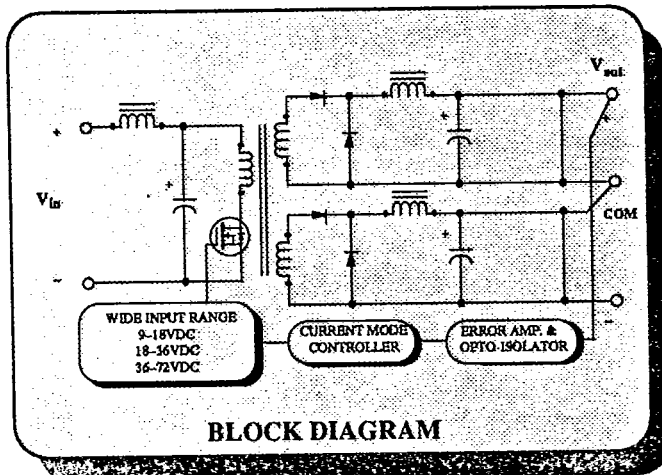
INTERNATIONAL
POWER DEVICES

30 WATT

T-57-11

QWD

SERIES



FEATURES:

- HIGH EFFICIENCY
- SIX-SIDED SHIELDING
- REMOTE ON/OFF CONTROL
- 2:1 WIDE INPUT VOLTAGE RANGE

APPLICATION:

- BATTERY OPERATED EQUIPMENT
- TELECOMMUNICATIONS
- PROCESS CONTROL EQUIPMENT
- TRANSPORTATION

The QWD Series is a board line of high performance, high efficiency, dual output, Current Mode Control DC/DC converters encapsulated in metal cases with six-sided EMI/RFI shielding. A 2:1 input voltage range is specifically designed to provide the telecommunication & transportation industries with a low cost/high performance alternative DC/DC converter. Remote On/Off control is provided and an internal Π (Pi) input filter is standard for all models.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range

12 VDC Input Model 9-18 VDC

24 VDC Input Model 18-36 VDC

48 VDC Input Model 36-72 VDC

Input Filter Π (Pi) Filter

Reverse Voltage Protection Internal Shunt Diode
(External Input Fuse Recommended)

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 1\%$, max.

Output Balance $\pm 2\%$, max.

Load Regulation See Table

Line Regulation, LL-HL $\pm 1\%$, max.

Ripple and Noise, 20 MHz BW 75 mVp-p, 10 mVRMS

Transient Response,

25% Step Load Change <500 μ sec.

Temperature Coefficient $\pm 0.02\%/^{\circ}\text{C}$, max.

Short Circuit Protection Continuous

REMOTE ON/OFF CONTROL

Control Voltage Referenced to Input Minus

Compatibility CMOS, TTL or Relay

On-Control >5.5 VDC or Open Circuit

Off-Control <+1.8 VDC

GENERAL SPECIFICATIONS

Remote On/Off Control All Models

Efficiency FL >75%

Isolation Voltage 500 VDC, min.

Isolation Resistance 1×10^9 Ohms, min.

Switching Frequency 100 KHz, typ.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

Case Temp -25°C to 85°C

Storage Temp -55°C to 105°C

Cooling Convection or Forced Air

PHYSICAL SPECIFICATIONS

Dimensions 2.56 x 4.56 x 0.83 Inches
(65 x 115.8 x 21.1 mm)

Weight 11.0 Oz. (305 g.)

Case Material Black Coated Metal
(With Non-Conductive Seating Surface)

DUAL OUTPUTS

INTERNATIONAL
POWER DEVICES

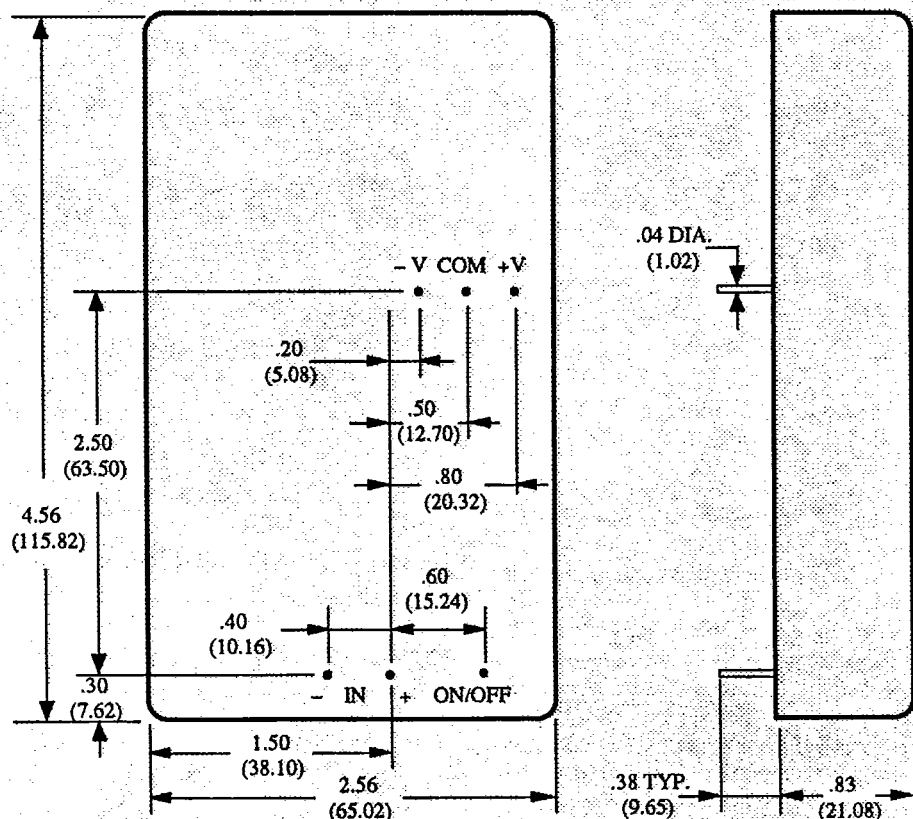


INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION		MODEL NUMBER
			NO/LOAD	FULL/LOAD		LINE	LOAD*	
9-18	±5VDC	±2500mA	20mA	2850mA	76	±1%	±5%	QWD1205
	±12VDC	±1250mA	20mA	3150mA	78	±1%	±2%	QWD1212
	±15VDC	±1000mA	20mA	3150mA	78	±1%	±2%	QWD1215
18-36	±5VDC	±2500mA	20mA	1300mA	78	±1%	±5%	QWD2405
	±12VDC	±1250mA	20mA	1600mA	80	±1%	±2%	QWD2412
	±15VDC	±1000mA	20mA	1600mA	80	±1%	±2%	QWD2415
36-72	±5VDC	±2500mA	20mA	670mA	78	±1%	±5%	QWD4805
	±12VDC	±1250mA	20mA	740mA	84	±1%	±2%	QWD4812
	±15VDC	±1000mA	20mA	740mA	84	±1%	±2%	QWD4815

* Load Regulation FL - 1/4L ±5% }
 FL - N/L ±10% } FOR ±5V OUTPUTS ONLY
 FL - 1/4L ±2% }
 FL - NL ±5% } FOR OTHER OUTPUTS

ALL DIMENSIONS IN INCHES (MM)

Specifications Subject to Change Without Notice.



For Optional MATING SOCKET, Refer to Accessories Page. All Mechanical Tolerances are ±0.020"