

PRODUCT SPECIFICATION

*Half Bridge @ 25 KHz.*

**QT2 Series**

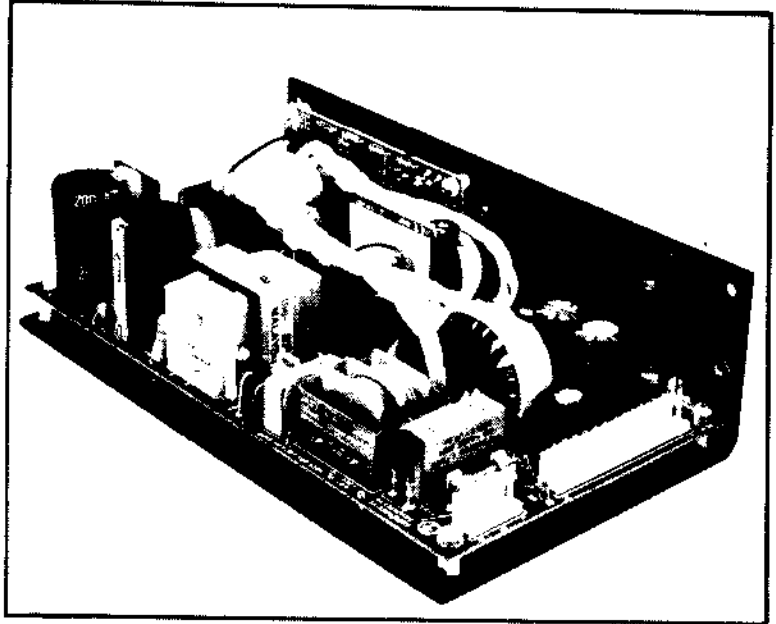
Multiple Output Switching  
Power Supplies

*QT2 PS QT1 with chassis*

*Q12 PS QT2 with terminal block.*

**Features**

- UL Recognized to UL 1012 and 478 †
- CSA Certified to C 22.2 No. 220 - M1986 and EB1402 †
- TUV Licensed to IEC 380 and 950 and VDE 0806 Class 1 SELV †
- Fully compliant with FCC and VDE (Level A) standards for EMI
- Accommodates high-peak disk drive requirements
- 0° - 50° C operating ambient with convection cooling only
- AC input provisions:
  - 90-132/180-264 VAC, 47-63Hz
  - jumper relocation for VAC range selection
  - input surge current limited
  - brown out protected
- DC output provisions:
  - complete overload protected
  - overvoltage protected
  - reverse voltage protected
  - low noise outputs



**125/150 Watts Up to 3 Outputs**

**Available Outputs**

Standard Output Voltage Combination	<i>OVP</i> Output 1 <i>Vads</i>			Output 2 <i>Vads</i>			Output 3		
	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps
A	+5	20.0	25.0	+12	6.0	10.0	-12	1.0	1.5
B	+5	20.0	25.0	+12	6.0	10.0	-5	0.5	1.0
C	+5	20.0	25.0	+15	6.0	10.0	15	1.0	1.5
D	+5	20.0	25.0	+24	4.0	5.0	-24	1.0	1.5
E	+5	25.0	30.0	-	-	-	-	-	-
F	+5	20.0	25.0	+12	6.0	10.0	-	-	-
I	+5	10.0	15.0	+24	6.0	8.0	-	-	-

Total (sum) of rated DC output power, maximum:  
 Convection cooling only 125 Watts  
 Forced-air cooling (25 CFM) 150 Watts  
 Peak power (10 sec) 150 Watts

*Linear Post regulator*      *3+ regulator*

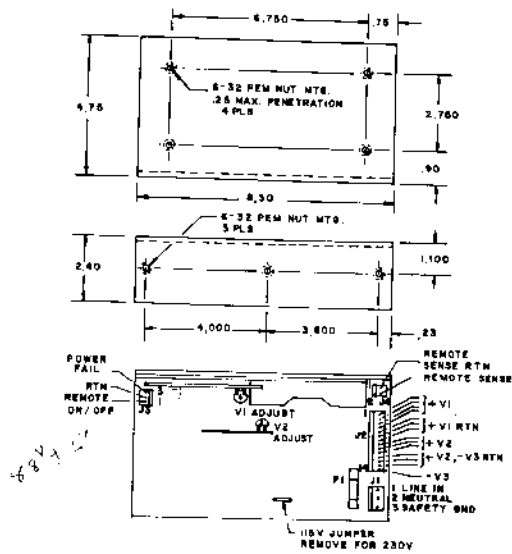
- Other output combinations are also available; consult factory
- All outputs share a common return; consult factory for alternatives.

†Most models, consult factory

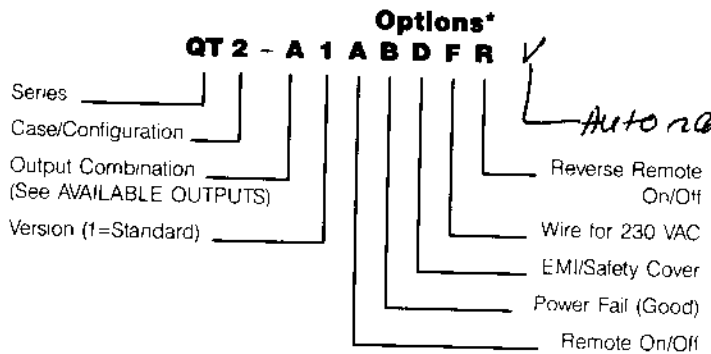


# QT2 Series

## Outline/Mounting/Interface



## Ordering Information



\*List all options selected

All Power Supplies are warranted to be free of defects in materials and workmanship for a period of one year.

J-1	PCB Connector	Mating Connector	J-3	PCB Connector	Mating Connector
AMP	640445-5	640426-5	AMP	640445-3	640426-3
MOLEX	09-74-1051	09-50-3051	MOLEX	09-74-1031	09-05-3031
PANDUIT	HLSS 156-5	CE 156F20-5	PANDUIT	HLSS-156-3	CE 156F20-3
J-2	PCB Connector	Mating Connector	J-4	PCB Connector	Mating Connector
AMP	1-640445-4	1-640426-4	AMP	640456-2	640440-2
MOLEX	09-74-1141	09-50-3141	MOLEX	22-23-2021	10-11 2023
PANDUIT	HLSS-156-14	CE 156F20-14	PANDUIT	MLSS/00-2	CE 100F22-2

All Mating Connectors fit any PCB Connector

## Specifications

<b>AC Input</b>	Nominal: 115/230 VAC, 47-63Hz Range: 90-132/180-264 VAC; jumper selectable	<b>Reverse Voltage Protection</b>	100% of rated current outputs
<b>DC Outputs</b>	Nominal: See AVAILABLE OUTPUTS table Range: Outputs 1 and 2 adjustable $\pm 5\%$ Output 3 fixed $\pm 5\%$	<b>Hold-up Time</b>	20 ms after loss of nominal AC Input, for specified load regulation
<b>Regulation</b>	Line: $\pm 0.25\%$ , all outputs, full AC Input range Load: $\pm 0.25\%$ for Outputs 1 and 2, $\pm 1\%$ for Output 3; for $\geq 10\%$ loading of Output 1 and zero to full loading of other Outputs	<b>In-rush Current</b>	35A Pk, cold start
<b>Ripple/Noise</b>	Sum. 1% Pk Pk, all outputs	<b>Fusing (F-1)</b>	4A/2A, 5MF for 115/230 VAC
<b>Overshoot &amp; Undershoot</b>	Deviation: 2% for 25% load change at 5A/usec Response: 200 usec to 1% deviation, all outputs, turn-on or turn-off	<b>Remote Sense</b>	For Output 1 only
<b>Temperature Coefficient</b>	$\pm 0.02\%$ / $^{\circ}\text{C}$ , all outputs	<b>Remote On/Off*</b>	Turn on: open circuit or TTL "hi" Turn off: Short circuit or TTL "lo"
<b>Temperature Range</b>	Operation: $0^{\circ}$ to $50^{\circ}\text{C}$ at rated output power; derate linearly to 50% power at $70^{\circ}\text{C}$ Storage: $-55^{\circ}\text{C}$ to $85^{\circ}\text{C}$	<b>Power Fail (Good)*</b>	Power applied: Output "lo" until all outputs are in regulation Power lost: After one cycle ride-through (16 msec minimum) output goes "lo" 4 msec minimum before loss of regulation Output 1 and 2 returns are commoned
<b>Efficiency</b>	75% typical	<b>Shock/Vibration</b>	Per MIL-STD-810C Vibration: Method 514.2 Procedures X, Xt Shock: Method 516.2, Procedures I, III Shock (Transit): Method 516.2, Procedure II
<b>Overload Protection</b>	Output 1: current limited by primary current level Outputs 2 and 3: current limited by post regulator characteristics	<b>Weight</b>	2 lbs., 8 oz.
<b>Overvoltage Protection</b>	Output 1: output level $> 6.25\text{V} \pm 5\%$ causes shutdown (AC input cycle for restart) Outputs 2 and 3: post regulators have quasi-regulated inputs.		

Specifications are subject to change without notice.

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