CHEROKEE INTERNATIONAL, INC.

A SUBSIDIARY OF CORE INDUSTRIES

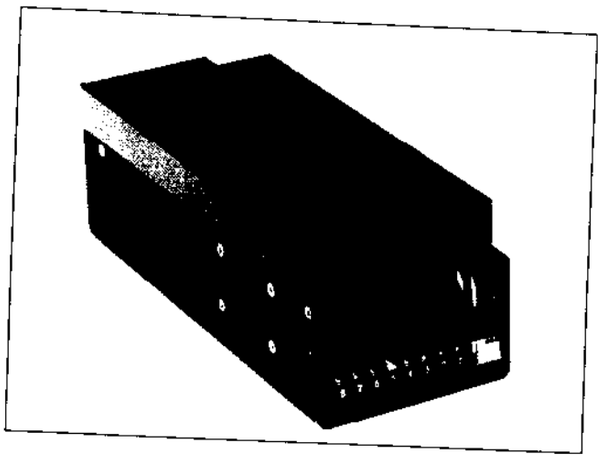
PRODUCT SPECIFICATION

QP6 Series

Multiple Output Switching Power Supplies

Features

* UL Recognized to UL 1012 and 478+
* CSA Certified to C 22.2 No. 220 - M198 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
* All outputs fully regulated
* Accommodates high-peak disk drive requirements
* 0°-50°C operating ambient



* AC input provisions:
  - -90-132/180-264 VAC, 47-63Hz
  - -jumper relocation for VAC range selection
  - -transient input voltage protected
  - -input surge current limited
  - -brown out protected
* DC output provisions:
  - -complete overload protected
  - -overvoltage protected
  - -reverse voltage protected
  - -remote/internal sensing for Output 1
  - -low noise outputs

300 Watts Up to 3 Outputs

Available Outputs

Standard Output Voltage Combination	Output 1			Output 2			Output 3		
	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps
A	5	50.0	55.0	12	2.5	3.0	12	6.0	10.0
B	5	50.0	55.0	12	4.0	6.0	12	4.0	6.0
C	5	50.0	55.0	5	2.5	3.0	12	6.0	10.0
D	5	50.0	55.0	5	4.0	6.0	12	4.0	6.0
E	5	50.0	55.0	24	2.5	3.0	12	6.0	10.0
F	5	50.0	55.0	24	4.0	6.0	12	4.0	6.0
G	5	50.0	55.0	12	2.5	3.0	24	6.0	10.0

Total (sum) of rated DC output power, maximum: 300 Watts

* Other output combinations are also available, consult factory
* All outputs have independent returns

+ Most models; consult factory

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QP6 Series

Outline/Mounting/Interface

AC INput Header (J1)
AMP MTA-156 (Locking)
1 AC
2 N.U. (Pin Pulled)
3 ACC
4 N.U. (Pin Pulled)
5 Safety Gnd

Fan Drive /Remote Sense Header (J2)
AMP MTA-100, #640456-4
1 Output 1 Sense (+)
2 Output 3 (+)
3 Output 1 Sense (-)
4 Output 3 Rtn

Ordering Information

QP 6 - A 1 A FGR (Options*)

- Series
- Case/Configuration
- Output Combination (See AVAILABLE OUTPUTS)
- Version (1=Standard)
- Remote On/Off
- Wire for 230 VAC
- External VAC Range Selection
- Reverse Remote On/Off

* List all options selected

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

Control Header (J3)
AMP MTA-100, 640456-5
1 LED Drive Rtn
2 LED Drive (.005A to Output)
3 Not used
4 Remote On/Off Rtn
5 Remote On/Off

DC Output Term. Block (TB1)
1 Output 1 (+) 5 Output 2 (+)
2 Ouput 1 (+) 6 Output 2 Rtn
3 Output 1 Rtn 7 Output 3 (+)
4 Output 1 Rtn 8 Output 3 Rtn

Specifications

AC Input — Nominal: 115/230 VAC, 47-63Hz; Range: 90-132/180-264 VAC; jumper selectable

DC Outputs — Nominal: See AVAILABLE OUTUTS table; Range: Adjustable +/-5% all outputs

Regulation — Line: +/-0.25%, all outputs, full AC input range; Load: +/-0.25% for Output 1, +/-1% for Outputs 2 and 3; for >-10% loading of Output 1 and zero to full loading of other Outputs

Ripple/Noise — Sum: 1% Pk-Pk, all outputs

Overshoot & Undershoot — Deviation: 2% for 25% load change at 5A/usec; Response: 200 usec to 1% deviation, all outputs turn-on or turn-off

Temperature Coefficient — +/-0.02%/°C, all outputs

Temperature Range — Operation: 0° to 50°C at rated output power derate linearly to 50% power at 70°C; Storage: -55°C to 85°C

Efficiency — 75% typical

Overload Protection — Output 1: current limited by primary current level; Outputs 2 and 3 : current limited by post regulator characteristics

Overvoltage Protection — Output 1: output level > 6.25V +/-5% causes shutdown (AC input cycle for restart); Outputs 2 and 3: Post regulators have preregulated inputs

Reverse Voltage Protection — Up to 100% of rated current all outputs

Hold-up Time — 20 ms after loss of nominal AC Input, for specified load regulation

In-rush Current — 35A Pk, cold start

Fusing (F-1) — 5A/3A, 5MF for 115/230 VAC

Remote Sense — For Output 1 only

Remote On/Off* — Turn on: open circuit or TTL "hi"; Turn off: Short to output 1 return, or TTL "lo"; Option "R" is the reverse

Thermal Shutdown — Heat-sink-mounted thermal switch acts equivalently to remote on/off

Shock/Vibration — Per MIL-STD-810C; Vibration: Method 514.2 Procedures X, X1; Shock: Method 516.2, Procedures I, III; Shock (Transit): Method 516.2 ProcedureII

Weight — 4lb. 9oz.

Specifications are subject to change without notice.

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