

PTE43-C Series

43 Watts

Single, Dual & Triple Output Switching Power Supply

Features:

- * Small 6.20 x 3.20 x 1.50" Enclosed Package
- * IEC-320 C14 Inlet with on/off Switch
- * Convection Cooled Operation
- * Universal AC Input (47-63 Hz)
- * 100,000 hours MTBF (25°C Full Load Operation)
- * Class B Emissions
- * International Safety Approvals & CE Mark
- * 3 Year Warranty



Input Specifications:

Input Range	Universal VAC (90-264 VAC) & 120-370 VDC
Input Frequency	47-63 Hz or DC
Inrush Current	25A @ 115VAC / 50A @ 230VAC max (cold start)
Input Current	1200mA @ 90 VAC / 500mA @ 200 VAC Maximum
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	65% Typical (depending on output model)
Input Protection	Single Fused (4 Amp / 250 V)
Hold-up Time	Half Cycle Minimum @ 120 VAC and 80% load
Leakage Current	<750 μ A maximum @ 264 VAC
Harmonics	EN61000-3-2 Class D

Output Specifications:

Adjustment Range	Fixed at Factory
Minimum Load	See Output Table
Regulation	V1 = 3% V2 & V3 = 10% max
Ripple / Noise	$\pm$ 1% pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	$\pm$ 2%
Short Circuit Protection	Continuous
Over Load Protection	125-150%, automatic recovery
Over Voltage Protection	120-150%, latched shutdown

Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

Electromagnetic Compatibility:

Electrostatic Discharge	EN61000-4-2, $\pm$ 4KV Contact / $\pm$ 8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, $\pm$ 2KV
Surges	EN61000-4-5, $\pm$ 2KV Line-Earth, $\pm$ 1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

Environmental Specifications:

Operating Temp	0 ~ 50°C (De-Rate 2.5%/1°C Rise To +70°C)
Storage Temp	-20 ~ +85°C
Cooling	6 cfm airflow required for full load or derate 25%
Temp Co-Efficient	0.05% per degrees celsius
Humidity	5 to 95% RH Non-Condensing
Vibration	3 Axes 1 Oct/min, 5 min at 4 Res. 0.75G Pk, 5-500Hz
Shock	20G Peak Acceleration
Reliability	> 100k hours MTBF (Full Load and 25°C Operation)

International Safety Approvals

Standards	UL 60950-1, File # E158470 CSA 22.2 No. 60950-1 TUV EN60950 CE Mark (LVD)
-----------	--

PowDec
Technologies, Inc.

PowDec Technologies (Taiwan) Inc.
No. 9, Alley 9, Lane 392, Fu Teh
1st Road Hsi Chih, Taipei Hsien, Taiwan, 22150
Tel: (02) 2694-2760
Fax: (02) 2694-2753
E-mail: powdec@ms3.hinet.net
http://www.powdec.com.tw

PowDec Technologies (USA) Inc.
7013 Realm Drive, Suite E
San Jose, CA 95119 U.S.A.
Tel: (408) 362-9388
E-mail: tedkang@powdec.com
http://www.powdec.com

Output Table:

Model Number	V1	Io Min	Io Max	V2	Io Min	Io Max	V3	Io Min	Io Max
PTE43-3.3V-C	3.3VDC	2000mA	13.00A	-	-	-	-	-	-
PTE43-5V-C	5VDC	1000mA	8.00A	-	-	-	-	-	-
PTE43-6V-C	6VDC	1000mA	7.20A	-	-	-	-	-	-
PTE43-9V-C	9VDC	1000mA	4.50A	-	-	-	-	-	-
PTE43-12V-C	12VDC	400mA	3.60A	-	-	-	-	-	-
PTE43-15V-C	15VDC	400mA	2.70A	-	-	-	-	-	-
PTE43-24V-C	24VDC	400mA	1.79A	-	-	-	-	-	-
PTE43-21-C	+5VDC	500mA	6.00A	+12VDC	300mA	3.60A	-	-	-
PTE43-22-C	+3.3VDC	500mA	6.00A	+12VDC	300mA	3.60A	-	-	-
PTE43-23-C	+5VDC	500mA	6.00A	+15VDC	300mA	2.70A	-	-	-
PTE43-31-C	+5VDC	500mA	6.00A	+12VDC	300mA	3.60A	-12VDC	100mA	0.50A
PTE43-32-C	+3.3VDC	500mA	6.00A	+12VDC	300mA	3.60A	-12VDC	100mA	0.50A
PTE43-33-C	+5VDC	500mA	6.00A	+12VDC	300mA	3.60A	-5VDC	100mA	0.50A
PTE43-34-C	+5VDC	500mA	6.00A	+15VDC	300mA	2.70A	-15VDC	100mA	0.50A
PTE43-35-C	+5VDC	500mA	6.00A	+7VDC	300mA	2.00A	-7VDC	100mA	0.50A
PTE43-36-C	+7.5VDC	500mA	3.00A	+18VDC	300mA	2.00A	-18VDC	100mA	0.40A

Maximum continuous output power not to exceed 43 watts.

Mechanical Specifications:

Construction: Enclosed w/ IEC-320

Weight: 1.143 lb / 0.518 kg

Pin Assignmnets:

Pin	Single	Dual	Triple
CN2-1	V1	V2	V3
CN2-2	V1	V1	RTN
CN2-3	V1	V1	RTN
CN2-4	RTN	RTN	V1
CN2-5	RTN	RTN	V1
CN2-6	RTN	RTN	V2

Connectors:

Input: IEC-320 C14

Output Mating Connector:
Molex 15-48-0406

