

DTE180-03X-F-W6

180W

Triple Output



Optional +5VSB @2A with 5%
O/P regulation and 50mV ripple

FEATURES

- ITE Safety Approvals
- 3-Prong IEC 320-14, Class I
- Altitude: ITE up to 5000m
- <0.3Watts No load input Power.
- Touch current less than 100μA
- No minimum load required
- 3 year warranty
- Safety pending

MODEL/CHANNEL		Unit	DTE180-03X-F-W6		
Output Rating	Vo	Vo	+5Vdc	+12Vdc	-12Vdc
	Io (min)	A	0A	0A	0A
	Io (max)	A	15A	14A	1A
	Ripple & Noise	mV	120mV	100mV	120mV
	O/P Regulation	%	5%		
	Po (Max.)	-	180W		
INPUT	Input Voltage Range	V	90-264VAC		
	Range	Hz	47-63Hz		
	Power Factor	VAC	> 0.95 @ 115VAC; > 0.9 @ 230VAC @full load		
	Efficiency	%	> 86% @ Average Efficiency, 115/230VAC		
Efficiency	Input range	VAC	90-264VAC		
	Frequency	Hz	47-63Hz		
	Power Factor	VAC	> 0.95 @ 115VAC; > 0.9 @ 230VAC @full load		
	Inrush current	VAC	< 25A peak @ 115VAC; < 50A peak @ 230VAC cold start @25°C		
	Input current (rms)	VAC	3A @ 115VAC; 1.5A @ 230VAC max.		
	Maximum output power (Po)	W	180W		
	Hold-up time	VAC	> 16ms typical @full load, 115VAC		
Environmental Specification	Operating temperature	°C	-20 to +60°C (Refer to derating curve)		
	Storage Humidity	%	0-95%, non-condensing.		
	Humidity	%	10°C-95°C, non-condensing		
	MTBF	-	>200,000 hours at full load and 25°C ambient temperature based on Bellcore TR-332		
Environmental Agencies	Safety Standards	-	UL/c-UL UL62368-1 TUV EN62368-1 CB IEC 62368-		
	EMI Standards(Meet)	-	EN55032 Class B EN55035 Class B FCC Part 15 Class B CE		
Protection	Over Voltage Protection	-	Latch off, AC recycle		
	Over Load Protection	-	Auto-recover		
	Short circuit protection	-	Auto-recover		
	Dimension/*Weight	mm/g	L 200xW 90xH45 mm (7.874"x3.543"x1.77") / 1.2kgs. (2.65 lbs.)		

Note: 1. Peak-to-peak with 20MHz bandwidth with a tantalum 10uF



Performance

Safety and EMC Performance

Description	Safety	EMC
ITE equipment	IEC 62368-1 :2014(Second Edition) EN62368 :2014+A11 UL 62368 ,2nd Edition,2014-12-01 CAN/CSA C22.2 No. 62368-1-14,2nd Edition	EN55032 & EN55035 &FCC part 15(*) and ICES-003

Tests for performance to this requirement will be performed with final system

(*) FCC PAPT15 compliance information and warnings:

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful Interference

(2) This device must accept any interference received, including interference that may cause undesired operation

INSULATION LEVEL AND DIELECTRIC WITHSTAND (HI-POT)

Audio/Video, ITE equipment	Isolation Voltage	Grade Insulation
Primary to Secondary	4242VDC(3000Vac)	Reinforced
Primary to Ground(Mounting holes or Frame GND)	2121VDC(1500Vac)	Basic
Secondary to Ground(Mounting holes or Frame GND)	2121VDC(1500VaC)	Basic

Note: Production testing use dc voltage test for 4 Sec



Diagrams

180W

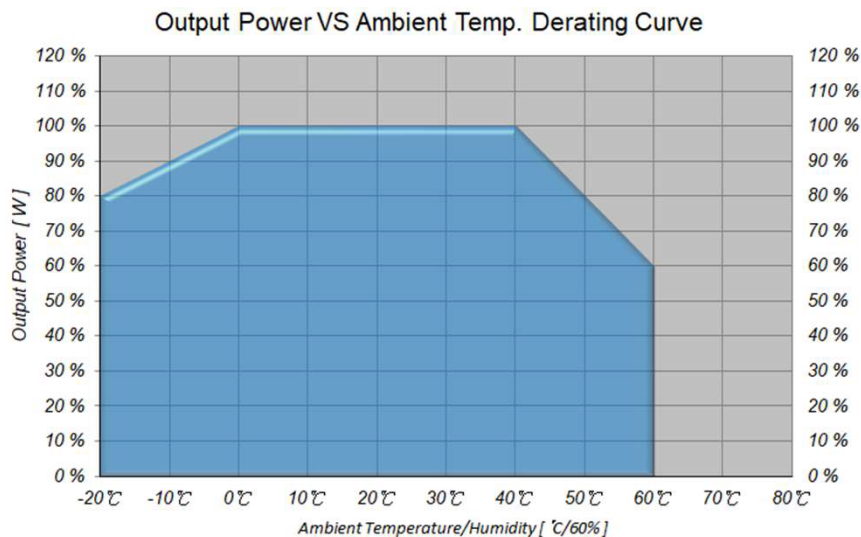
AC/DC Switching Adapter - Multiple Output

Derating curve:

Output vs Ambient temperature derating curve

Derate linearly 2% per °C from 41 to 60°C

Derate linearly 1% per °C from 0 to -20°C

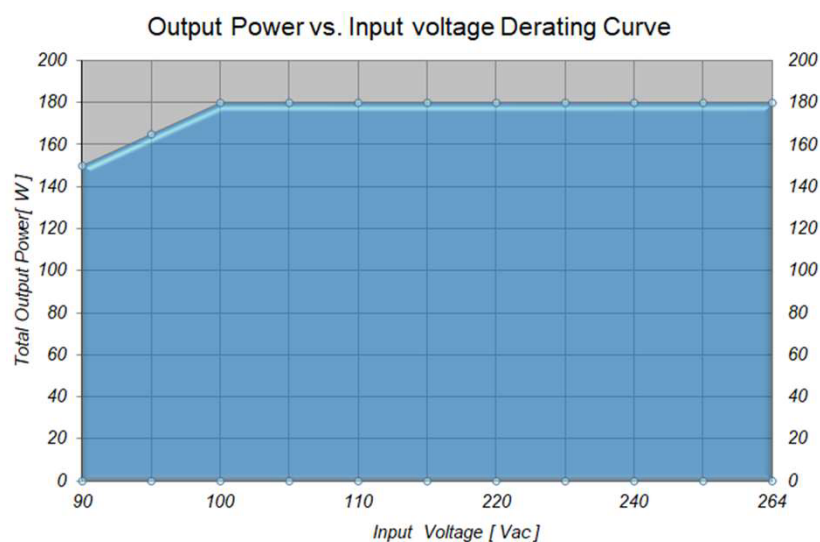


Derating curve:

Output vs Input voltage derating curve

180W Derate linearly 1.6% Per Vac from 100 to 90Vac)

*90-264V 5V The current can be 14A max

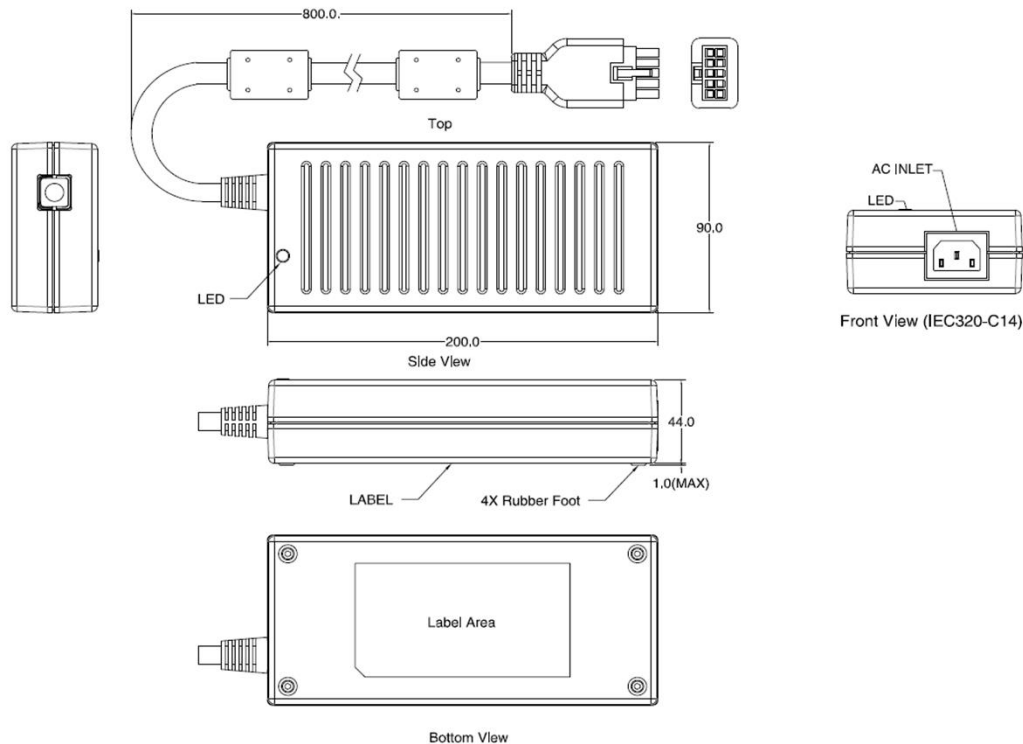




ETA-USA
The Power Professionals

Dimensions Diagrams

180W



Dimension : L200(7.874") x W90(3.543") x H45(1.77")mm
NOTE : TOLERANCE: +/-1mm(0.04")(LxWxH)

Note:

1. AC Inlet :
IEC320-C14
2. Plastic Case Color : Black
3. Tolerance : $\pm 0.5\text{mm}$
4. Unit : mm



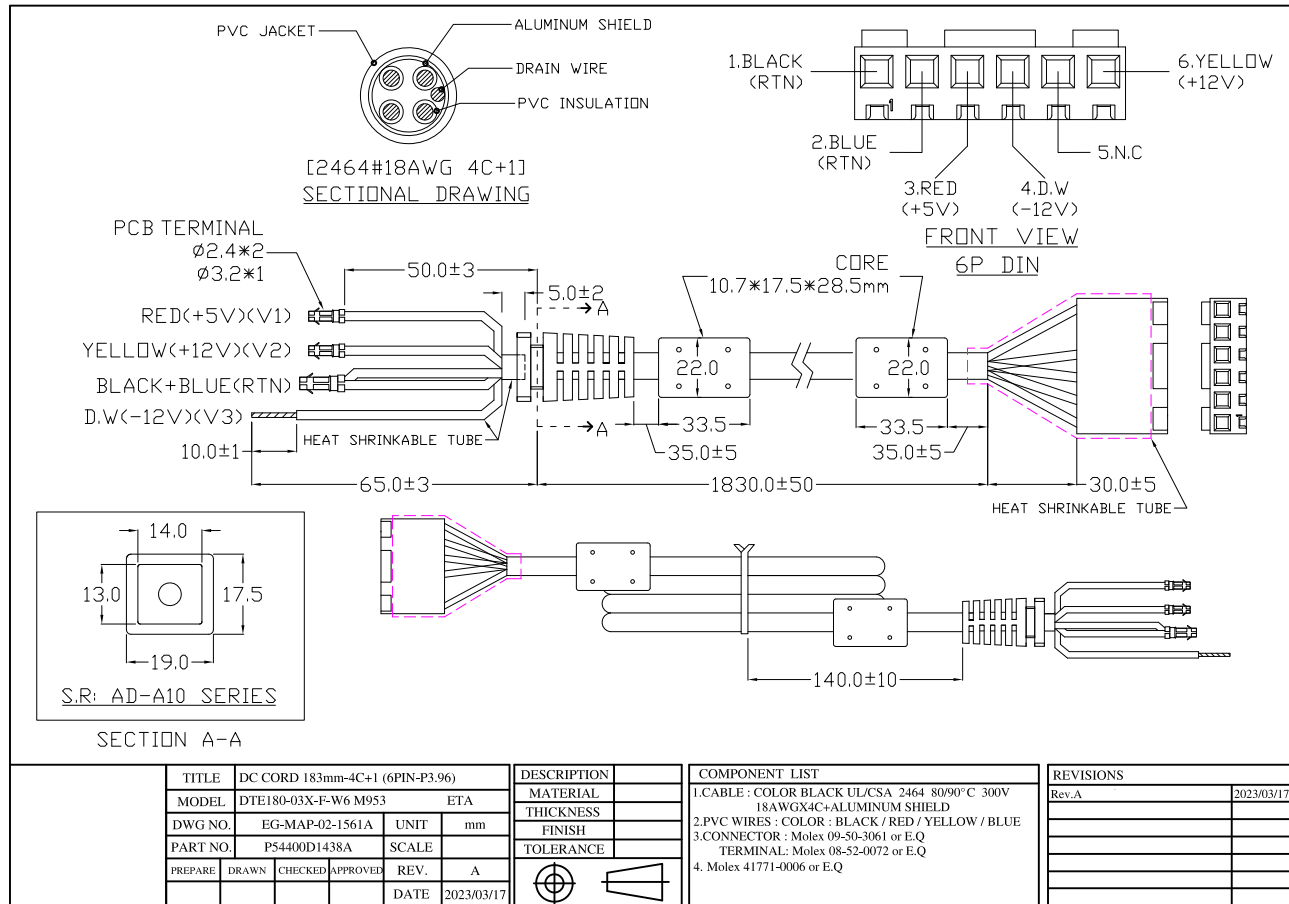
ETA-USA

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Dimensions Diagrams

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EG-B3C010 REV.B

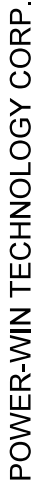
DC Output Connector

Standard male plug(power supply side): 10PIN Mini Fit Picth : 4.20

Mating Connector : Molex P/N: 39-28-123 or equivalent

DC output cable: 8C+1, UL2464, 16AWG, VW-1, 80





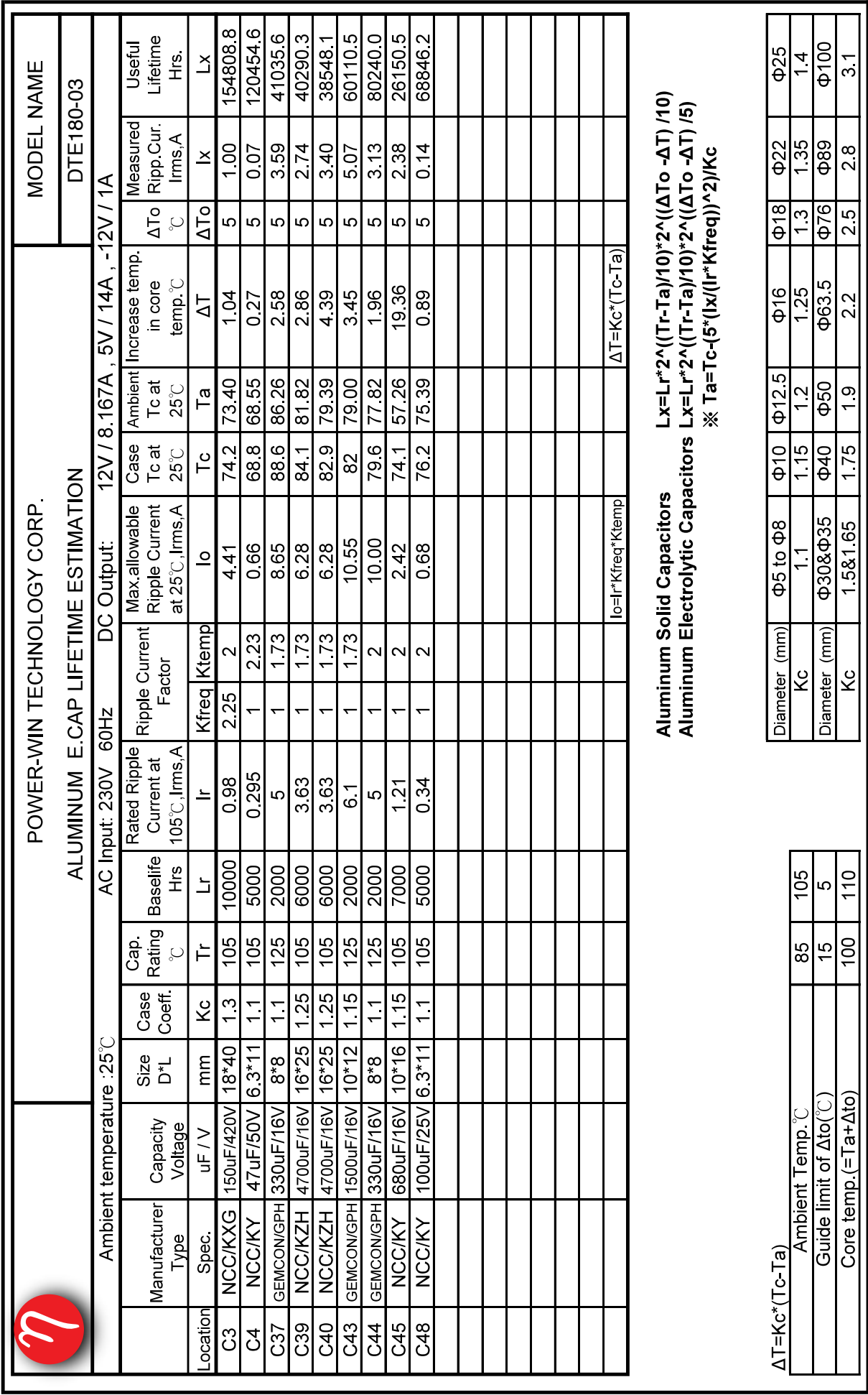
ALUMINUM E.CAP LIFETIME ESTIMATION

MODEL NAME

DTE180-03

Aluminum Solid Capacitors $Lx=L^{*2}^{\wedge}((Tr-Ta)/10)^{2}^{\wedge}((\Delta To-\Delta T)/10)$
 Aluminum Electrolytic Capacitors $Lx=L^{*2}^{\wedge}((Tr-Ta)/10)^{2}^{\wedge}((\Delta To-\Delta T)/5)$
 ※ $Ta=Tc-5^{*}(|x/(lr^{*}Kfreq))^{.2}/Kc$

Diameter (mm)	Φ5 to Φ8	Φ10	Φ12.5	Φ16	Φ18	Φ22	Φ25
Kc	1.1	1.15	1.2	1.25	1.3	1.35	1.4
Diameter (mm)	Φ30&Φ35	Φ40	Φ50	Φ63.5	Φ76	Φ89	Φ100
Kc	1.5&1.65	1.75	1.9	2.2	2.5	2.8	3.1



Ambient Temp. °C	85	105
Guide limit of Δt_o (°C)	15	5
Core temp. (= $T_a + \Delta t_o$)	100	110

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Mouser Electronics

Authorized Distributor

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