TA Series

DC/DC

25 Watts

Single/Dual/Triple Outputs

- **4:1 ultra wide input range**
  9-36 Vdc
  20-72 Vdc
- **Remote shutdown**
- **100kHz switching frequency**
- **Continuous short circuit protection**
- **Six-sided shielding**

The 25-Watt TA series operates over an ultra wide input range of 9-36 Vdc or 20-72 Vdc. Efficiencies of 77% are typical over varying load conditions of 25% to 100%. Additional features include input reverse polarity protection, remote on/off control, logic compatible with CMOS or open collector TTL, short circuit protection with auto restart, overvoltage protection, and an operating temperature range of -25°C to +71°C with no derating. Units are packaged in a six-sided continuous shielded case for EMI/RFI protection and measure 2.5” x 3.0” x 0.83”.

Specifications

INPUT

Voltage Range	9-36Vdc 20-72Vdc
Filtering	All Models
Reverse Polarity Protected	To Nominal Input Current External Fuse Required
Remote On/Off Control	All Models

OUTPUT

Voltage Tolerance	± 1% Main ± 3% Auxiliary
Ripple and Noise	50mV pk-pk
Short Circuit Protection	Continuous Power Cycle
Temperature Coefficient	0.02% / °C

GENERAL

Regulation:	Main	Aux
Line	0.5%	3.0%
Load	1.0%	3.0%
Efficiency	77% (typ)	
I/O Isolation	500 Vdc	
Switching Frequency	100khz (typ)	

ENVIRONMENTAL

Operating Temperature	-25°C to +71°C No Derating
Storage Temperature	-25°C to +105°C
Cooling	Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

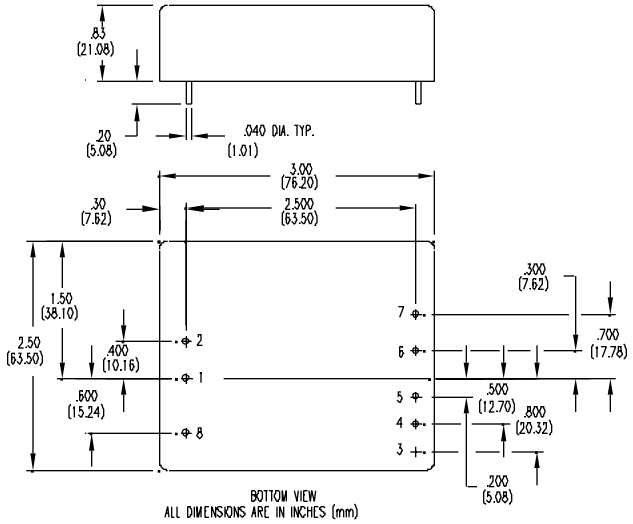
Applications

These units are ideally suited for telecommunications and applications having a widely varying input voltage such as automotive test equipment, process control, minicomputers and geosurvey equipment.

TA Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
9-36 Vdc	5 Vdc	5000mA	TA11-500-18
20-72 Vdc	5 Vdc	5000mA	TA11-500-48
9-36 Vdc	12 Vdc	2000mA	TA12-200-18
20-72 Vdc	12 Vdc	2000mA	TA12-200-48
9-36 Vdc	15 Vdc	1600mA	TA13-160-18
20-72 Vdc	15 Vdc	1600mA	TA13-160-48
9-36 Vdc	±12 Vdc	±1000mA	TA22-200-18
20-72 Vdc	±12 Vdc	±1000mA	TA22-200-48
9-36 Vdc	±15 Vdc	±800mA	TA23-160-18
20-72 Vdc	±15 Vdc	±800mA	TA23-160-48
9-36 Vdc	+5 / ±12Vdc	3500 / ±750mA	TA34-500-18
20-72 Vdc	+5 / ±12Vdc	3500 / ±750mA	TA34-500-48
9-36 Vdc	+5 / ±15Vdc	3500 / ±500mA	TA35-450-18
20-72 Vdc	+5 / ±15Vdc	3500 / ±500mA	TA35-450-48

Dimensions and Connections



Pins 0.040 (1.0) dia x 0.20 (5.1) lg min.

PIN CONNECTIONS
Single Output
1. +Input
2. -Input
3. No Pin
4. Trim
5. No Pin
6. +Output
7. Common
8. Remote On/Off

PIN CONNECTIONS
Multiple Outputs
1. +Input
2. -Input
3. +12 or 15 Output
4. Common
5. -12 or 15 Output
6. +5 Output
7. Common
8. Remote On/Off

NOTES:
1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
2. Load regulation from full load to minimum load with all other outputs at rated load.
3. Minimum current required on 5V out only.
4. Maximum total power from all outputs is 25 Watts and no output is to exceed its maximum rated current.

External Output Trimming: Output may be externally trimmed ±10% (Single output only).

Remote ON/Off Control (pin 8) common referenced to Minus iput (pin 2).
On greater than 4 Vdc or open circuit
Off less than 1.2 Vdc

11/01/2001

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