



## TAD180 Series

### 180W High Power Density AC/DC power supply in a 2x3 inch package

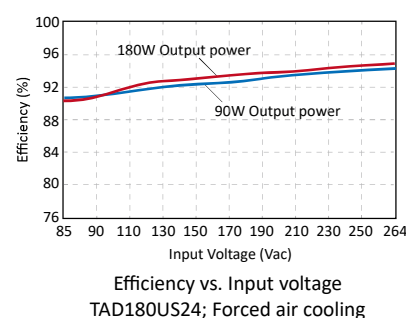
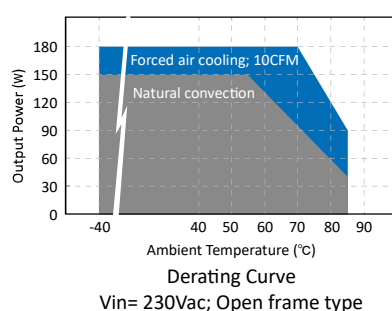
P-DUKE has announced the latest high-power density 180W AC/DC power supplies of TAD180 series. With forced air cooling these power supplies can deliver up to 180W or 150W at natural convection cooling. Additionally, an up to 220W peak output power for 5 seconds is available. This series is featured with 3000Vac reinforced insulation and over-voltage category OVCIII (up to 2000m operating altitude) which make these power supplies suitable for many industrial applications, especially heavy-duty industry. This series comes in compact 2 x 3 Inch open frame versions or optional encased versions and DIN-rail versions with universal input range of 85 to 264 Vac or 120-370 Vdc. It provides 12, 15, 18, 24, 28, 36, 48, 53 Vdc single output voltage. The output voltage can be easily adjusted up to  $\pm 8\%$  with the integrated potentiometer. They have the following protection functions: over-voltage protection (latch mode), over-current protection (hiccup mode and auto-recovery), short-circuit protection (continuous and auto-recovery) and over-temperature protection (sensed by an internal thermistor; hiccup mode and auto-recovery).

TAD180 series is equipped with long-life electrolytic capacitors, efficiencies up to 94%, power factor correction is 0.95, no-load power consumption of less than 150mW and IEC protection types of class I and class II. The power supplies can be operated at an altitude up to 5000m and with its superior performance at an operating temperature of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

TAD180 power supplies have been certified to the following standards:  
Safety approvals: IEC/EN/UL 62368-1

Conducted emissions: EN 55032 Class B  
Radiated emissions: EN 55032 Class A

TAD180 AC/DC low-profile power supplies are ideal for space-constrained industrial, telecom and IT applications such like power distribution panels, motor related equipment, robotic arms and EV charging stations etc.  
Product warranty is 3 years.



Series	Input Voltage	Output Voltage	Insulation	Over Voltage Category	Safety Approval
TAD180 *Industrial grade	85-264 Vac 120-370 Vdc	12, 15, 18, 24, 28, 36, 48, 53 Vdc	3000 Vac Reinforced insulation	OVC III optional	IEC/EN/UL 62368-1 (AC & DC)



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P-DUKE's patents include the following: US 7,894,214 B1, US 8,817,495 B2, Nr. 20 2010 006 407.4, ZL 2011 2 C088132.5 ...