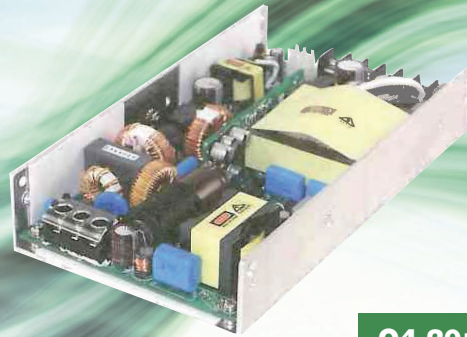


DP300 Series | ITE & Medical Safety

300W/480W Peak

- Optional built-in +5V standby power
- Optional built-in remote control function
- Remote off power saving status
- 1.66X peak/2.40X ultra peak capability
- Ultra fast start-up
- Ultra slim with only 1.3" height
- -40°C to 70°C convection cooling
- Eco-friendly design
- 2X MOPP approved per IEC/EN 60601-1, 3rd edition



Q4 2014

GREEN POWER

Description

The **DP300 Series** is a low-profile, 300W, U-frame power supply. Size: 4.0" x 7.0" x 1.3". Safety approved for ITE and Medical (MOOP and 2X MOPP) applications. Expanded temperature range: -40°C to 70°C. Built-in +5V standby power module and remote control functions optional. Eco-friendly design delivers 480W of peak-power. Ideal for in-rush currents found in various ITE and Medical equipment applications.

Specifications

- | | |
|--|--|
| <ul style="list-style-type: none"> Input voltage • 90 VAC to 264 VAC Input frequency • 47Hz to 63Hz Power saving (remote off status) • < 0.2W at no load < 1W at 5Vsb/0.1A output Inrush current • < 30/60A at 115/230VAC Efficiency • 90% typ. Hold up time • 18ms typ. Overload/Short circuit protection • auto recovery Over voltage protection • latch off Operating temperature • -40°C to 70°C derating: 2.5%/°C > 50°C | <ul style="list-style-type: none"> Cooling • 300W at convection cooling 360W at forced air cooling Storage temperature • -40°C to +85°C EMI • EN 55022 B, EN 61000-3-3 Harmonics • EN 61000-3-2, class D EMS • EN 61000-4-2,-3,-4,-5,-6,-8,-11 Safety • UL/CSA/EN 60950-1, 2nd edition ANSI/AMMI/CSA/EN 60601-1, 3rd edition |
| <ul style="list-style-type: none"> Energy Saving (for -S suffix) | <ul style="list-style-type: none"> ENERGY STAR For computers version 6.0 For displays version 6.0 ErP regulation EC(No) 1275/2008 |

Mechanical Specifications

Notes

1. Dimensions shown in mm. Tolerance: ±0.4mm.
2. Size: 101.6 x 177.8 x 33 (mm)
 4" X 7" X 1.3"
 Net weight: TBD g approx. / unit
3. Connectors:

IN



Terminal Blocks (with opt. PC cover)

OUT

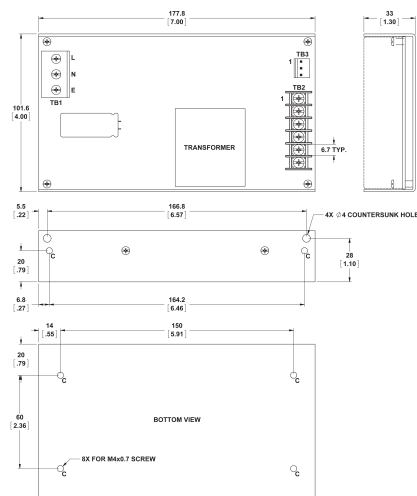


Terminal Blocks (with opt. PC cover)

Remote ON/OFF & Standby Output



5273-03 or equivalent



DP300 Series | ITE & Medical Safety

Output Specifications

| Model No. | Output Rail | Load | | | | Initial Accuracy | Step Efficiency | | | Avg. Eff. |
|---------------------|-------------|------|-------|-----|-------------------|------------------|-----------------|-----------|------------|-----------|
| | | Min | Rated | Max | Peak/ Ultra Pk | | @20% Load | @50% Load | @100% Load | |
| DP300-7 DP300-7S | +12V | 0A | 25A | 30A | 40A/60A | +11.9V~+12.1V | 85% | 90% | 90% | 88% |
| DP300-9 DP300-9S | +24V | 0A | 12.5A | 15A | 20A/30A | +23.9V~+24.1V | 85% | 90% | 90% | 88% |

Notes

- Output Load:**
Rated 300W for convection cooling; max. 360W for forced air cooling.
- Peak Load Duration:**
480W peak rating for durations up to 5 secs. Ideal for motor-starting/in-rush conditions.
- Ultra Peak Load:**
Ultra peak load 60A for +12V, DP300-7S; 30A for +24V, DP300-9S.
- Engineering Specification:**
Contact Tri-Mag for full engineering specification for the specific part number used in your design application.
- Standby Power Consumption with System:**
This is required by ENERGY STAR in U.S. and ErP regulation in Europe for appliances such as computers and displays. The latest requirement is measured input power to be less than 0.5W with system .
- Audible Noise:**
For the DP300-x energy saving series, achieving level VI (<0.3W) standby power consumption is accomplished through burst mode operation of the controller. The burst operation frequency is dependent on load conditions and is approx. 114Hz, within the audible frequency range.
- Step Efficiency and Average Efficiency:**
Test conditions in step efficiency are referred to 3.2.2 IPS (Internal Power Supply) of ENERGY STAR program requirements for computers. ENERGY STAR required for efficiency @ 20%, 50%, 100% load is 82%, 85%, 82%; average efficiency is the average of step efficiency.
- Model Ordering Table:**

| Safety/Application | w/o Audible Noise | Energy Saving |
|--------------------|-------------------|---------------|
| ITE & Medical | DP300-x | DP300-xS |