

■ Features

- Single output to 300W
- 100-240Vac Universal input
- IEC62368-1 approval
- Efficiency Level VI
- SCP, OVP, OCP, and OTP
- 2-year warranty
- MTBF: 50,000 hours
- Dimension: 220x96x51mm
- Made in Vietnam



Energy Efficiency
Level VI

RoHS
Compliant



*Product images are for illustrative purposes only and may vary from actual design.

■ Application

- Industrial Grade equipment

■ Model List

Custom Designs Available!

Model	Output Voltage	Output Current	Power
DT300Y-120-V-MX	12V	25A	300W
DT300Y-150-X-MX	15V	20A	300W
DT300Y-180-X-MX	18V	16.66A	300W
DT300Y-240-X-MX	24V	12.5A	300W
DT300Y-360-X-MX	36V	8.33A	300W
DT300Y-480-X-MX	48V	6.25A	300W
DT300Y-540-X-MX	54V	5.55A	300W

■ Technical Data

Voltage	100-240Vac
Line Frequency	50-60Hz
Input AC Current	4.6Amax. @100-240VAc
Inrush Current	140A max @100-240Vac max 25°C cold start
Efficiency	>87.5%@ 115Vac and 230Vac
Energy Consumption	<0.5W 115Vac/230Vac
Ripple & Noise*	280mVp-p
Line Regulation	±3%
Load Regulation	±5%
Turn-on Delay Time	3Smax. @100-240Vac
Hold-up Time	5mS @ Full Load
Capacitance Load	2200uF@100-240VAc
Output Overshoot/Undershoot	10% max.
Transient Response	8mS for 80% Load Change Typical
Over Voltage Protection	V out *120-150% Max.
Short Circuit Protection	Shut down
Over Current Protection	I out *120-150% Max.

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

November 1, 2019

■ Technical Data

Over Temperature Protection	Latch Protection
Operating Temperature	-30°C to + 40°C
Operating Humidity	20%-90%RH
Storage Temperature	-40°C to + 80°C
Storage Humidity	10%-95%RH non-condensing@ sea level shall be low 10,000ft
Vibration	10 to 300Hz sweep at a constant acceleration of 1G for 1 hour for each of the axes X, Y, Z
Burn-In	4 hours under normal input and 80% rated load at 40°C
MTFB	50,000 calculated hours at 25°C
Dimensions	220x96x51mm
Weight	1.3kg
Packing	12Pcs/Carton; 16kg

Notes:

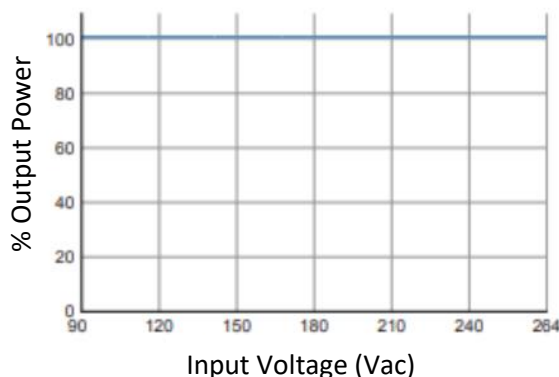
1. Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor.
2. When Over Current Protection is activated, the power supply will shut down automatically. Once the abnormal condition resulting in the failure being removed, the power supply will restart. When Over Voltage Protection or Over Temperature Protection is activated, the power supply will latch.

■ Safeties/EMI

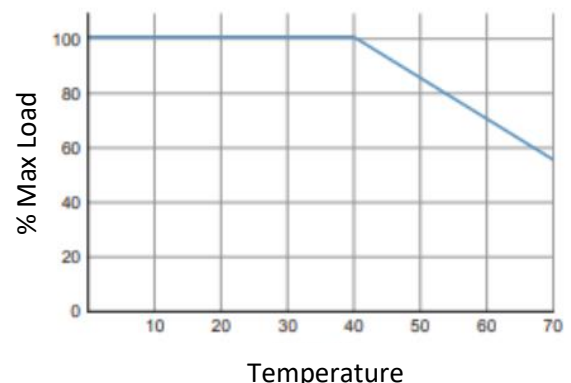
EMI Standard	EN55032 FCC Part 15 class B
EMS Standard	EN55032
ESD	IEC 61000-4-2, Air discharge ± 8 KV Criteria B, Contact discharge ± 4 KV Criteria B
EFT	IEC 61000-4-4, AC-Input 0.5KV Criteria A, AC-Input 1KV Criteria B
Surge Capability Requirement	IEC 61000-4-5: Differential mode ± 1 KV, Common mode ± 2 KV, Criteria A
Safety Standard	UL62368-1, CSA c22.2 No. 62368-1, IEC62368-1, EN62368-1, AS/NZS 62368.1, J62368-1
Leakage Current	3.5A max. @264Vac/50Hz
Insulation Resistance	50M Ω min. at primary to secondary add 500Vdc test voltage

■ Derating Curve

INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE

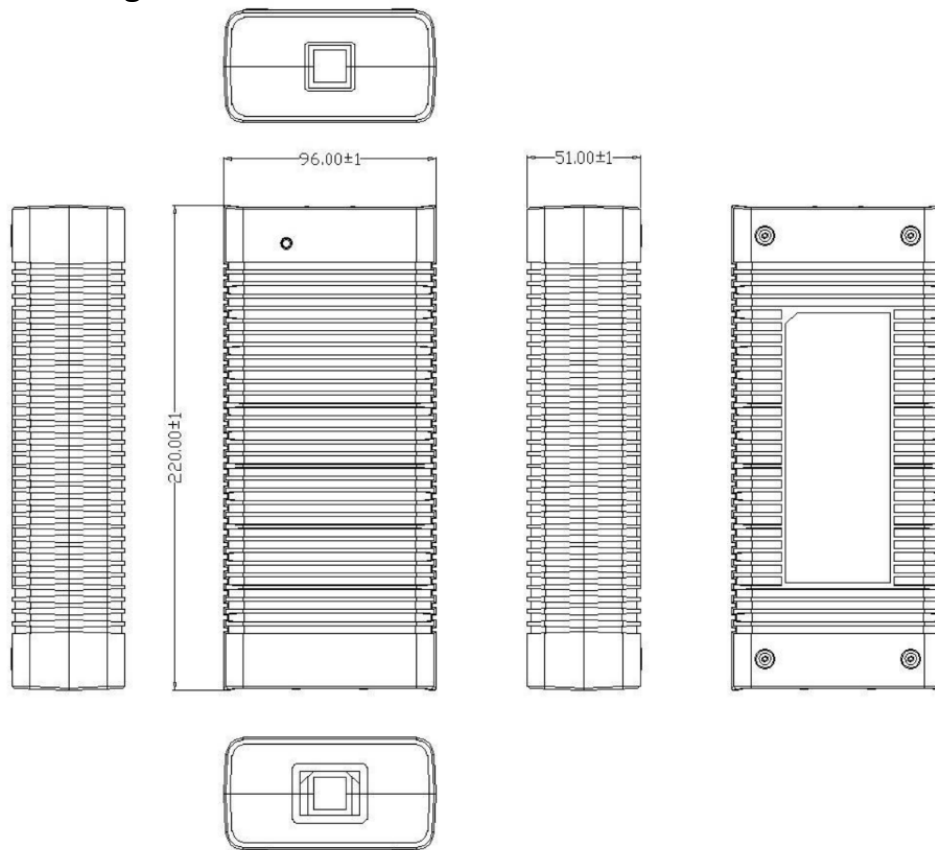


Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

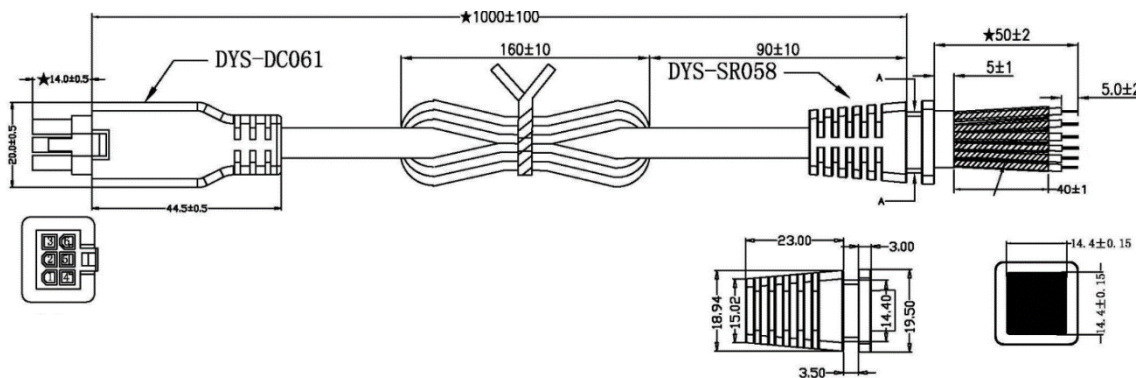
November 1, 2019

■ **Mechanical Diagram**



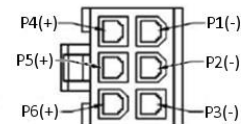
■ **DC Output Cable Mechanical Diagram**

UL 2464 18AWG*6C OD: 8.5 ± 0.1



Molex: 5556T 39-00-0038

Molex: 6 PIN 39-01-2060

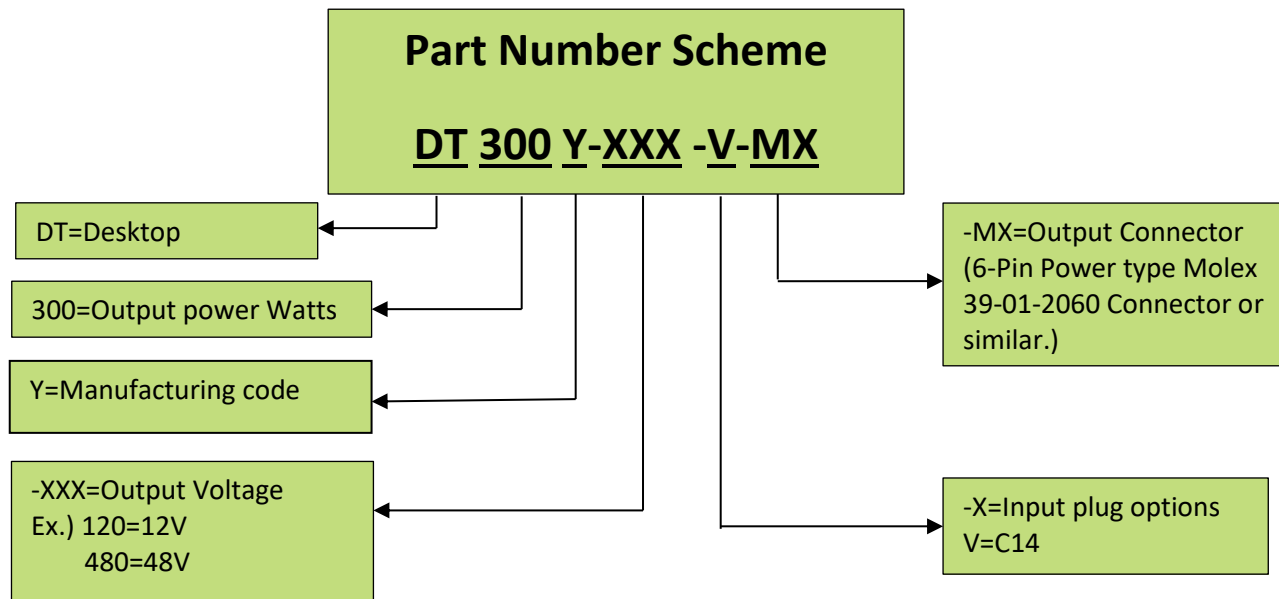


Output Cable Plug Pin Assignment

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

November 1, 2019



***Some Safety Agency Approvals may differ from what is shown. Contact Autec Sales!**

***Product images are for illustrative purposes only and may vary from actual design.**

***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**