



GaN FET Technology

300 Watt Series

Small Size Desktop Type

ATM300TS - X X X

P : C14 ← → O / P Voltage
A : C18



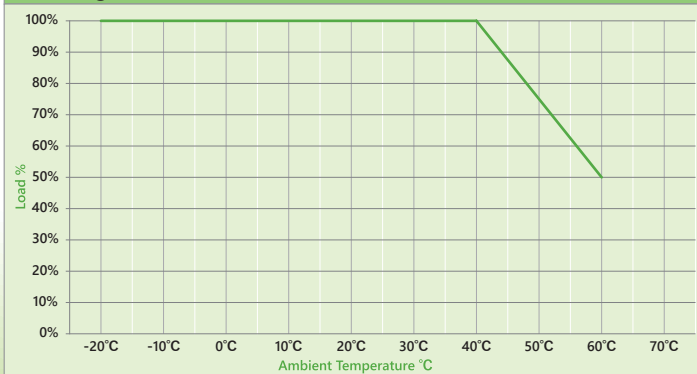
Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- IEC/EN/ANSI/AAMI HA60601-1-11 (Class II Only)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 9W / in³
- With 200kHz Switching Frequency
- Means of Protection: 2 X MOPP
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

| Model | O/P Voltage | O/P Current | Watt |
|---|-------------|-------------|------|
| ATM300TS- <input type="checkbox"/> 120 | 12.0V | 24.00A | 288W |
| ATM300TS- <input type="checkbox"/> 150 | 15.0V | 20.00A | 300W |
| ATM300TS- <input type="checkbox"/> 190 | 19.0V | 15.79A | 300W |
| ATM300TS- <input type="checkbox"/> 240 | 24.0V | 12.50A | 300W |
| ATM300TS- <input type="checkbox"/> 480 | 48.0V | 6.25A | 300W |
| ATM300TS- <input type="checkbox"/> 560(*) | 56.0V | 5.36A | 300W |

(*) I.T.E. Only

Derating Curve



| Input | |
|----------------|-------------------------------|
| Voltage | 100-240VAC |
| Line Frequency | 50-60Hz |
| Current | 3.5A-1.5A |
| Protection | Internal Primary Current Fuse |
| Configuration | IEC60320/C14, C18 |

| Output | |
|------------------------------|--|
| Load Regulation | ±5% (Typical) |
| Ripple & Noise | ≤ 1% Vp-p @ Full Load |
| Transient (Dynamic) Response | 0.5mS with 50% Load Change |
| Start-up Time | < 3,000mS |
| Hold-up Time | ≥ 10mS @ Full Load |
| Rise Time | < 50mS |
| Protection | Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection |

| Electrical | |
|---|--|
| Topology | LLC |
| Dielectric Withstand | 4,000VAC Primary - Secondary |
| Touch Current (Patient) Leakage Current | < 100µA |
| Earth Leakage Current | < 5mA |
| Efficiency | DoE Level VI |
| EMC Standards | EN55032 / EN55011 |
| | EN61000-3-2,3 |
| | EN55035 / EN61000-4-2,3,4,5,6,8,11 |
| MTBF | 300,000 Calculated Hours at 25°C , by Telcordia SR-332 |

| Environmental | |
|-----------------------|----------------------------|
| Operating Temperature | -20 to + 40°C |
| Storage Temperature | -20 to + 80°C |
| Operating Altitude | 5,000M |
| Relative Humidity | Operating : 20 to 80% RH |
| | Storage : 10 to 90% RH |
| Cooling | Natural Convection Cooling |

| Mechanical | |
|----------------|--------------------------|
| Case Dimension | L 183 × W 85 × H 35 (mm) |
| Weight | 1,060g (Ref.) |