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# GaN FET Technology

## 270 Watt Series

Slim Size Desktop Type

ATS270A1 - P X X X

P : C14 ← → O / P Voltage

Features :

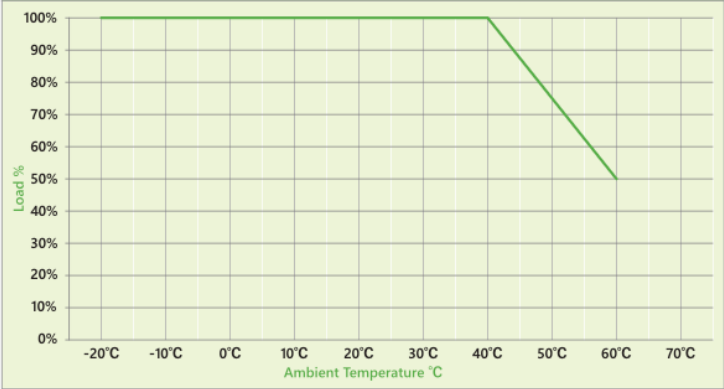
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 12.6W / in<sup>3</sup>
- Height : Less than 1"
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 1 Year Warranty

| Model         | O/P Voltage | O/P Current | Watt |
|---------------|-------------|-------------|------|
| ATS270A1-P190 | 19.0V       | 14.20A      | 270W |
| ATS270A1-P191 | 19.5V       | 13.80A      | 270W |
| ATS270A1-P240 | 24.0V       | 11.25A      | 270W |

Input

|                |                               |
|----------------|-------------------------------|
| Voltage        | 100-240VAC                    |
| Line Frequency | 50-60Hz                       |
| Current        | 3.5A Max.                     |
| Protection     | Internal Primary Current Fuse |
| Configuration  | IEC60320/C14                  |

Derating Curve



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  | 3,000VAC Primary - Secondary                           |
| Earth Leakage Current | < 5mA                                                  |
| Efficiency            | DoE Level VI                                           |
| EMC Standards         | EN55032                                                |
|                       | EN61000-3-2,3                                          |
|                       | EN55035                                                |
| 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 170 × W 84.3 × H 24.5 (mm) |
| Weight         | 630g (Ref.)                  |