



- Universal Input 100~240VAC 50/60Hz
- UL/IEC/EN 62368-1 Approved
- Compliant to LVD & EMC safety standards
- RoHS & CE Directive Compliant
- Level VI efficiency
- OVP, OCP, OTP & Short Circuit Protection

The purpose of the document is to specify a Single-phase AC input, single output switching power supply. This specification is suitable for: 15DYS812-xyS-Z 12W Series. This product is AC to DC switching power supply, it can provide 5-24V 12W max DC output constant voltage source. This Specification defines the input, output, performance characteristics, environment, noise and safety requirements.

Models

| Model Number | Output Voltage | Output Current | Output Power |
|--------------------|----------------|----------------|--------------|
| 15DYS812-050210S-z | 5V DC | 2.1A | 10.5W |
| 15DYS812-075150S-z | 7.5V DC | 1.5A | 11.25W |
| 15DYS812-090133S-z | 9V DC | 1.33A | 12W |
| 15DYS812-120100S-z | 12V DC | 1A | 12W |
| 15DYS812-150080S-z | 15V DC | 0.8A | 12W |
| 15DYS812-180067S-z | 18V DC | 0.67A | 12W |
| 15DYS812-240050S-z | 24V DC | 0.5A | 12W |

‘z’ can be: 1 = US, 2 = EU, 3 = UK, AUS = 4

Input Data

| | Min | Typical | Max | Units | Notes |
|-----------------|-----|---------|------|-------|------------------------------|
| Input Voltage | 90 | | 264 | V AC | 100-240VAC +/- 10% |
| Input Frequency | 47 | | 63 | Hz | 50-60Hz +/- 5% |
| Input Current | | 0.35 | | A | |
| Inrush Current | 0 | | 60 | A | At cold start, 100 / 240V AC |
| Leakage Current | | | 0.25 | mA | |

Output Data

| | Min | Typical | Max | Units | Notes |
|--------------------------|-----|---------|-----|-------|--|
| Output Voltage tolerance | | 5% | | % | |
| Ripple & Noise | | 150 | | mVp-p | |
| Over Current Protection | | | | | Over Current Point Limited >2.31A |
| Short Circuit Protection | | | | | Continuous short circuit proof. Will recover if fault condition is removed |
| Over Voltage Protection | | | | | Will recover if fault condition is removed |

| Environmental Data | | | | | |
|-----------------------|---------|---------|---------|-------|----------------------|
| | Minimum | Typical | Maximum | Units | Notes |
| Operating Temperature | 0 | | +40 | °C | |
| Storage Temperature | -20 | | +80 | °C | |
| Operating Humidity | 10 | | 90 | % | Operating 10% to 90% |
| Storage Humidity | 5 | | 95 | % | Storage 5% to 95% |

| Other Information | | | | | |
|-------------------|------------------------------|---------|---------|-------|--|
| | Minimum | Typical | Maximum | Units | Notes |
| Isolation | | | | | 2KVdc, between primary and secondary circuit |
| MTBF | | 50,000 | | hrs | |
| Weight | 200 +/-10g | | | | |
| Dimensions | Refer to mechanical drawings | | | | |

| EMC Emissions (2014/30/EU) | | | | |
|----------------------------|--------------|------------|----------|---|
| | Standard | Test Level | Criteria | Notes |
| Conducted | EN 55032 | Pass | B | EMC Directive 2014/30/EU |
| Radiated | EN 55032 | Pass | B | |
| Harmonic Standard | EN 61000-3-2 | | Class D | P.F. shall >0.95 @100Vac input and >0.9 @240Vac input |

| EMC Immunity (2014/30/EU) | | | | |
|---------------------------|---------------|------------|----------|---|
| | Standard | Test Level | Criteria | Notes |
| EMS | EN 55035 | | | |
| EMS | EN 61204-3 | | | |
| ESD | IEC 61000-4-2 | | B | Contact: +/- 4KV; Air: +/- 8KV |
| RS | IEC 61000-4-3 | | | Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM (1KHz) |
| EFT | IEC 61000-4-4 | | A/B | 0.5/1.0KV on input AC power ports |
| Surge | IEC 61000-4-5 | | A | Line to Line: +/- 1KV (peak); Line to F.G: +/- 2KV (peak) |
| Conducted | | | | |
| PFMF | | | | |
| Dips and Interruptions | | | | |

| Safety Approvals | |
|-----------------------------|--|
| Safety Standards | |
| RoHS/REACH | RoHS Directive (EU) 2015/863 & REACH (205 SVHC) |
| CE LVD Directive 2014/35/EU | Yes (UK/European) – Only applicable for UK & EURO plugs. (-1) (-2) |
| cULus | Yes – Only applicable for US plug. (-1) |
| TUV | Yes (German/European) – Only applicable for EURO plug. (-2) |
| RCM & C-Tick | Yes – Only applicable for Australian plug. (-4) |

Mechanical Drawing



