

Features

- Universal Input 100~240VAC
- Direct Euro Fixed Plugtop Adapters
- Approved to UKCA, CE, TUV-GS, REACH
- EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI & (EU) 2019/1782
- FCC Class B Certified
- Single Output 12~24V DC
- OVP, OCP, OTP, SCP



Ideal Power's 15DYS812-xyS-2-RS 12W AC/DC External Adapter EURO Plugtop Power Supply (PSU) Series are certified to UKCA, CE, TUV-GS, RoHS & EN 62368-1/IEC 62368-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

| Model Number | Output Voltage (V DC) | Output Current (A) | Output Power (W) | Efficiency (%) |
|-----------------------|--------------------------|-----------------------|---------------------|-------------------|
| 15DYS812-120100S-2-RS | 12 | 1 | 12 | 83 |
| 15DYS812-240050S-2-RS | 24 | 0.5 | 12 | 83 |

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 | 12 | -- | 24 | V | |
| Ripple & Noise | 200 | -- | 240 | mVp-p | Model dependant |
| Turn on Delay Time | -- | -- | 3 | s | At 100 Vac to 240 Vac input & Full load |
| Hold up Time | 5 | -- | -- | s | At Full load & 100Vac/60Hz |
| Overshoot / Undershoot | -- | -- | 10 | % | |
| Load Transient Response | Shall not exceed 10% of the nominal output voltage, load fluctuation: from 20% to 80%, R/S: 0.5A/uS, frequency: 100Hz duration and 8mS at 80%. | | | | |
| Capacitance Load | While input 100~240Vac and capacitance load is 470uF, the adapter can turn on normally and the output is in the rated range. | | | | |

Protection Requirements

| | |
|--------------------------|--|
| Over Current Protection | Over Current Point Limited >12V-1.1A / 24V-0.55A |
| 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

| | Min | Typical | Max | Units | Notes |
|-----------------------|-----|---------|-----|-------|----------------------|
| Operating Temperature | 0 | -- | +45 | °C | |
| Storage Temperature | -20 | -- | +80 | °C | |
| Operating Humidity | 10 | -- | 90 | °C | Operating 10% to 90% |
| Operating Humidity | 5 | -- | 95 | °C | Storage 5% to 95% |

Other Information

| | Min | Typical | Max | Units | Notes |
|------------|-----|---------|-----|-------|---|
| Insulation | -- | 50 | -- | MΩ | At primary to secondary add 500Vdc test voltage |
| MTBF | -- | 50000 | -- | hrs | |
| Dimensions | | | | | 61x29x40mm |

EMC Emissions (2014/30/EU)

| | Standard | Test Level |
|-----------|----------|------------|
| Conducted | EN 55032 | Pass |
| Radiated | EN 55032 | Pass |

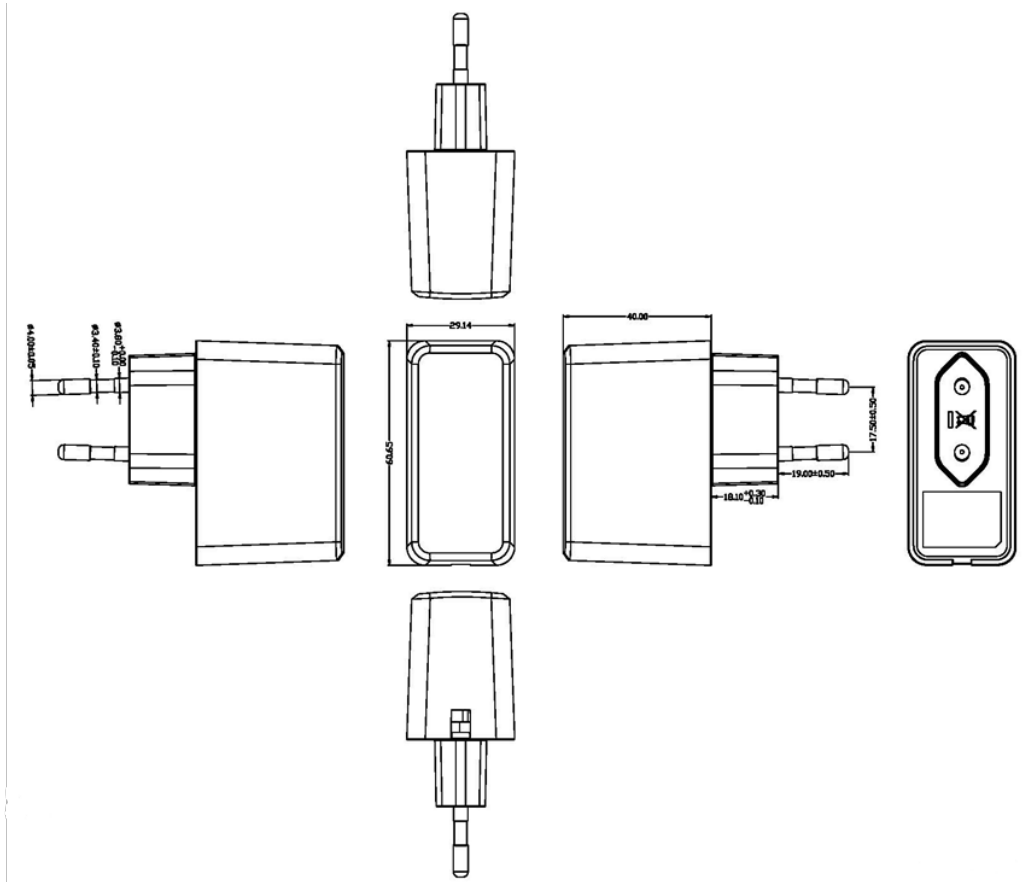
EMC Immunity (2014/30/EU)

| | Standard | Notes | Criteria |
|-------|---------------|---|----------|
| EMS | EN 55035 | | |
| ESD | IEC 61000-4-2 | Contact: +/- 4KV; Air: +/- 8KV | Pass B |
| EFT | IEC 61000-4-4 | 0.5/1.0KV on input AC power ports | Pass A/B |
| Surge | IEC 61000-4-5 | Differential: +/- 1KV - Common: +/- 2KV | Pass A |

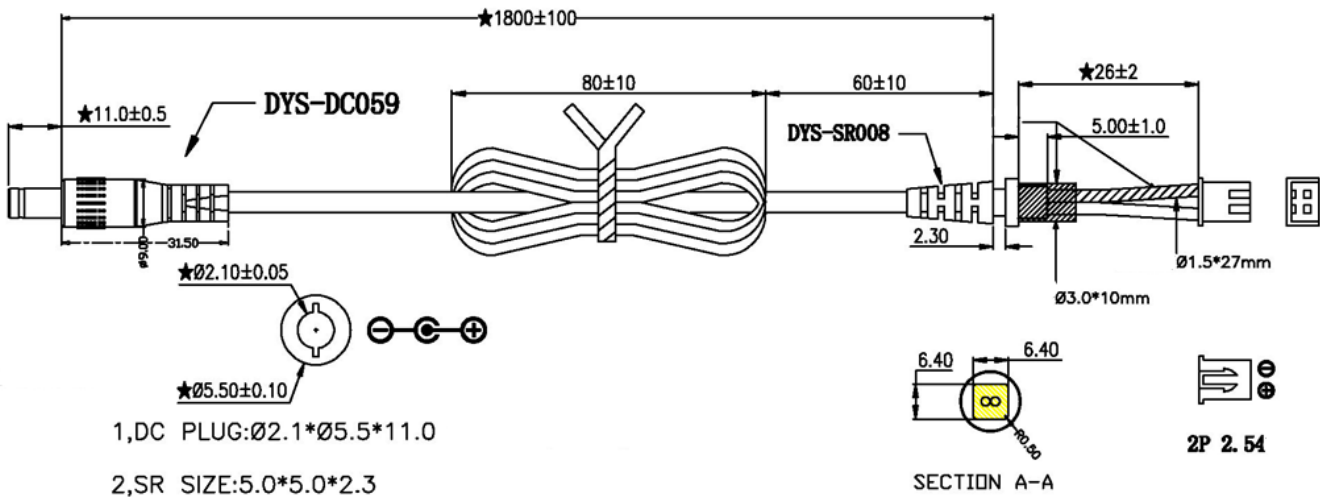
Safety Approvals

| | 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

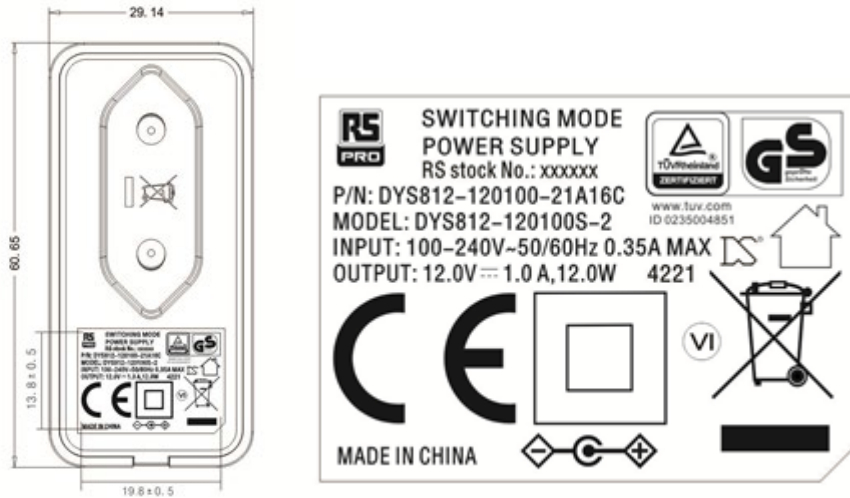


Cable Drawing

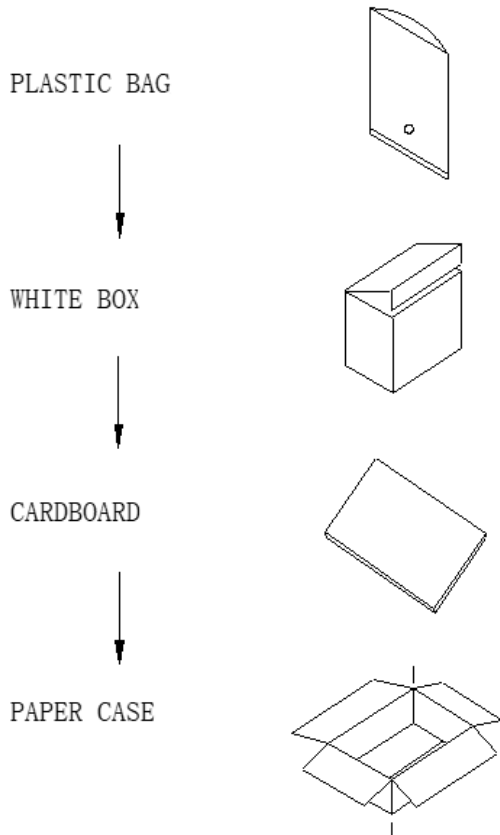


Label Drawing

Typical product label



Packaging



MECHANICAL DIMENSION:

| | L(mm) | W(mm) | H(mm) |
|-------------|-------|-------|-------|
| PLASTIC BAG | 210 | 130 | |
| WHITE BOX | 94 | 60 | 90 |
| CARDBOARD | 395 | 255 | |
| PAPER CASE | 405 | 265 | 300 |

PACKING METHOD :

| PACKING METHOD | 16PCS/LAYER *3LAYERS |
|----------------|----------------------|
| QTY | 48PCS |
| N.W | 5.0Kg |
| G.W | 6.5Kg |