

Features

- Universal input 100-240VAC
- Approved to UKCA, CE, cULus, RCM (C-Tick) RoHS & REACH
- EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI & (EU) 2019/1782
- FCC Class B Certified
- Single Output 9~48V DC
- OVP, OCP, OTP & Short Circuit



Ideal Power's 15DYS902-xyG 96W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, CE, cULus, TUV, RCM (C-Tick), RoHS, REACH & UL/IEC/EN 62368-1 Standards and comply with Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

| Model Number | Output Voltage | Output Current | Output Power |
|------------------|----------------|----------------|--------------|
| 15DYS902-090750G | 9V DC | 7.5A | 67.5W |
| 15DYS902-120750G | 12V DC | 7.5A | 90W |
| 15DYS902-150600G | 15V DC | 6A | 90W |
| 15DYS902-240400G | 24V DC | 4A | 96W |
| 15DYS902-320300G | 32V DC | 3A | 96W |
| 15DYS902-480200G | 48V DC | 2A | 96W |

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 | | | 1.5 | A | |
| Inrush Current | 0 | | 80 | A | At cold start, 100 / 240V AC |
| Leakage Current | | | 0.25 | mA | |

Output Data

| | Min | Typical | Max | Units | Notes |
|--------------------------|-----|---------|-----|-------|---|
| Output Voltage | | 5 | | % | |
| Ripple & Noise | | 1 | | % | |
| Over Current Protection | | | | | Typically, 115-135% of Rated Current |
| 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 | | +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

| | Min | Typical | Max | Units | Notes |
|------------|-----|---------|-----|-------|---|
| Isolation | | | | | Primary to Secondary: 4242VDC/5mA Max (3 seconds) |
| MTBF | | 50,000 | | hrs | At 25°C, Full load and nominal |
| Weight | | | | | 450 g -10/+10 Depending on model |
| Dimensions | | | | | Refer to mechanical drawings |

EMC Emissions (2014/30/EU)

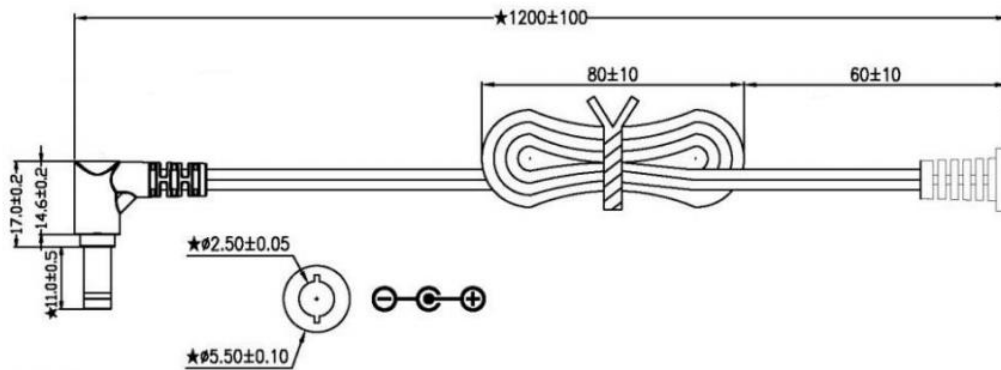
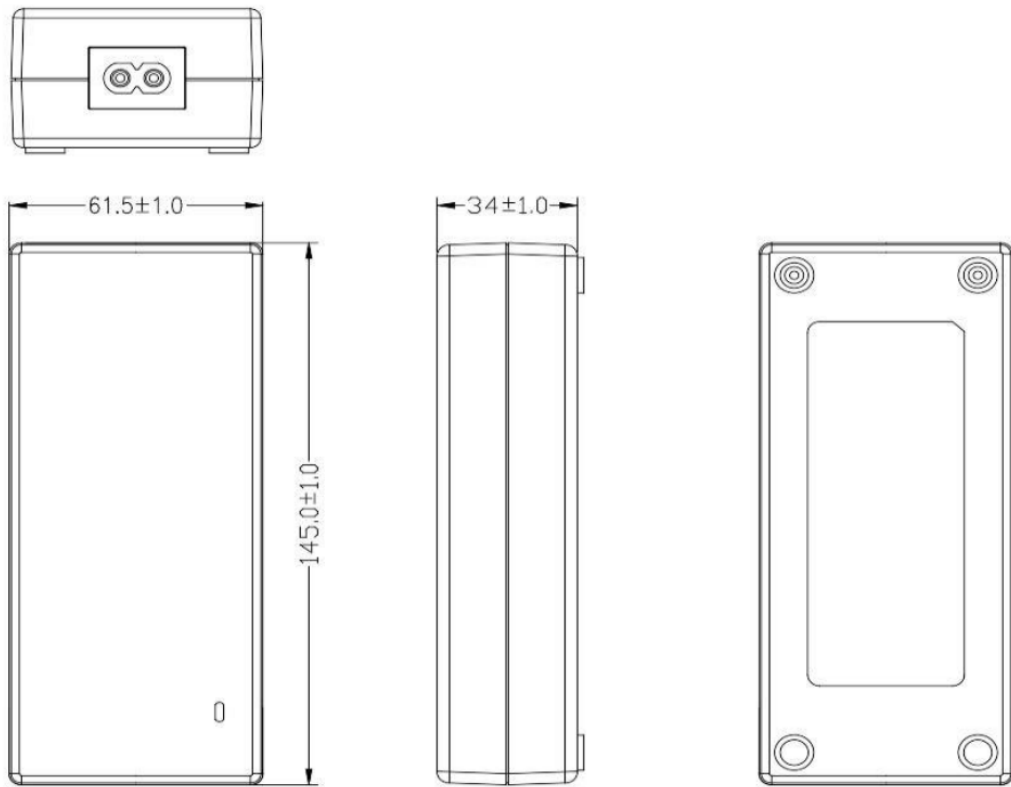
| | Standard | Test Level | Criteria | Notes |
|-----------|----------|------------|----------|--------------------------|
| Conducted | EN 55032 | Pass | B | EMC Directive 2014/30/EU |
| Radiated | EN 55032 | Pass | B | |

EMC Immunity (2014/30/EU)

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

Safety Approvals

| | Safety Standards |
|-----------------------------|---|
| RoHS/REACH | RoHS Directive (EU) 2015/863 & REACH (205 SVHC) |
| CE LVD Directive 2014/35/EU | Yes (UK/European) |
| cULus | Yes |
| TUV | Yes |
| RCM & C-Tick | Yes |

Mechanical Drawing


| Model Number | Output Cable |
|------------------|--------------|
| 15DYS902-090750G | 1.2m UL2468 |
| 15DYS902-120750G | 1.2m UL2468 |
| 15DYS902-150600G | 1.8m UL2468 |
| 15DYS902-240400G | 1.8m UL2468 |
| 15DYS902-320300G | 1.8m UL2468 |
| 15DYS902-480200G | 1.5m UL2468 |

AC – DC