

## Features

- Universal input 90~264V DC
- Operating temperature 0~40oC
- Approved to UKCA, CE, TUV-GS, cULus, RCM (C-Tick), FCC, PSE, RoHS
- IEC/EN 60601-1 Safety Approved
- Single Output 5V dc
- OVP, OCP, OTP, SCP



Image for Illustration Purpose  
Models may vary



Ideal Power's 15DYS825-xyW-RS 20W AC/DC External Desktop Power Supply (PSU) Series are certified to CE, TUV-GS, cULus, RCM (C-Tick), FCC, RoHS, REACH & EN 60601-1/IEC 60601-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in Medical, 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 (%) |
|---------------------|-----------------------|--------------------|------------------|----------------|
| 15DYS825-050400W-RS | 5                     | 4                  | 20               | 83.08          |

### 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      | --  | --      | 0.7  | A     | @ 100-240Vac input & Full load            |
| Inrush Current     | 0   | --      | 60   | A     | @ cold start, 100 / 240V AC               |
| Energy Consumption | --  | --      | 0.21 | W     | Input 115Vac or 230Vac and no output load |

### Output Data

|                      | Min | Typical | Max | Units | Notes                                  |
|----------------------|-----|---------|-----|-------|--|
| Output Current Range | 0.0 | --      | 4   | A     |  |
| Ripple & Noise       | --  | --      | 200 | mVp-p | Model Dependant                        |
| Line Regulation      | --  | ±3      | --  | A     | @ 100 Vac to 240 Vac input & Full load |
| Load Regulation      | --  | ±5      | --  | %     |  |
| Turn-on Delay Time   | --  | --      | 3   | S     | @ 100 Vac to 240 Vac input & Full load |
| Hold-up Time         | 5   | --      | --  | S     | @ Full load & 115Vac at full load      |

**Protection Requirements**

|                          | Min | Typical | Max | Units | Notes                                      |
|--------------------------|-----|---------|-----|-------|--|
| Over Current Protection  | --  | --      | 5.4 | A     | Will recover if fault condition is removed |
| Short Circuit Protection |     |         |     |       | 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  | %     | non condensing  |
| Relative Humidity     | 5   | --      | 95  | %     | non condensing  |
| Vibration             | 10  | --      | 300 | Hz    | sweep at a constant acceleration of 1.0G(Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z |

**Reliability Requirements**

|                       | Min | Typical | Max  | Units | Notes   |
|-----------------------|-----|---------|------|-------|---|
| Burn-in               | 2   | --      | --   | Hrs   | Under normal input and 80% rated load at 40°C ± 5°C |
| Dielectric Strength   | --  | --      | 5    | mA    | 4242Vdc / 60s (3s for mass production)              |
| Leakage Current       | --  | --      | 0.25 | mA    | @ 264Vac / 50H                                      |
| Insulation Resistance | 50  | --      | --   | mΩ    | @primary to secondary add 500Vdc test voltage       |

**EMI/EMS Standards**

|       | Test Level                                | Test Criteria |
|-------|---|---------------|
| EMI   | FCC PART 18 Class B                       |               |
| ESD   | IEC 61000-4-2 Air +/-8KV – Contact +/-4KV | B             |
| EFT   | IEC 61000-4-4 0.5KV/1KV                   | A/B           |
| Surge | IEC 61000-4-5 +/-1KV - +/-2KV             | A             |

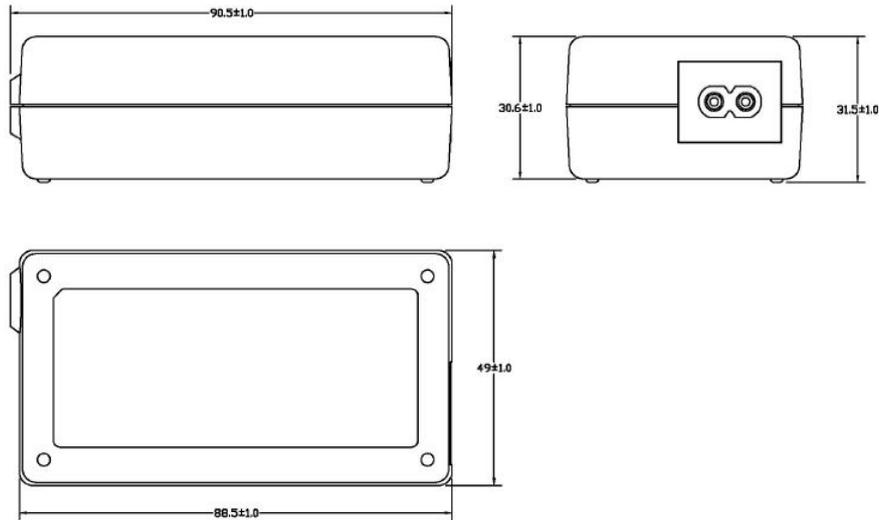
**Safety Approvals**

|                  | Safety Standards   |
|------------------|--|
| Safety Standards | EN 55032, IEC/EN 60601-1, approved                         |
| Approvals        | UKCA, CE, TUV-GS, cULus, RCM (C-Tick), CCC, FCC, PSE, RoHS |

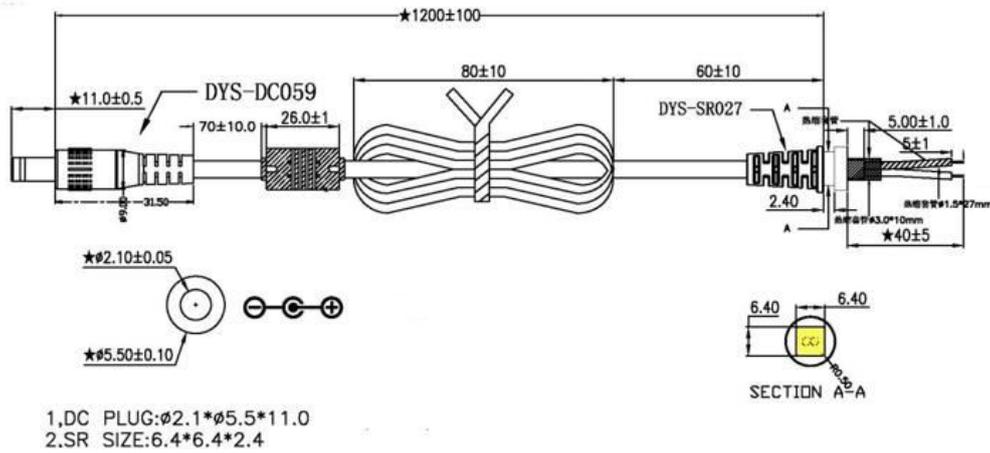
**Product Information**

|                  | Notes                       |
|------------------|-----------------------------|
| Dimensions       | 90.5 x 30.6 x 31.5mm        |
| Output Cord      | 1200mm Black                |
| Output Connector | DC Plug: 2.1 x 5.5 x 11.0mm |

Mechanical & Label Drawing



Typical Cable



Cable Drawing

Typical Label

