

## ES-100R Single Output Switching Power Supply

### Features

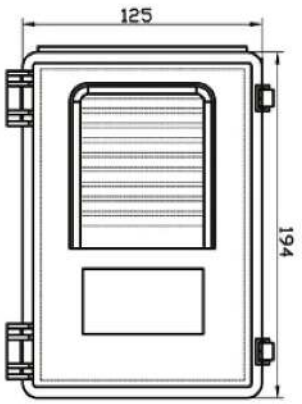
- Protections:Short circuit/Over load/Over voltage
- Forced air cooling by built in DC fan
- Built-in cooling Fan ON-OFF control
- Built in LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 65KHZ
- High efficiency,long life,high reliability,water proof
- 1 year warranty
- Dimensions: 194*127*107mm (L*W*H)

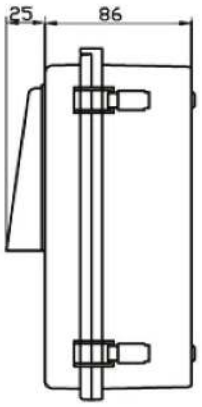
| MODEL | | ES-150R-5 | ES-150R-12 | ES-150R-15 | ES-150R-24 |
|---|---|---|---|---|---|
| OUTPUT | DC Voltage | 5V | 12V | 15V | 24V |
| | Voltage Tolerance | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | Rated Current | 25A | 12.5A | 10A | 6.3A |
| | Current Range | 0-25A | 0-12.5A | 0-10A | 0-6.3A |
| | Line Regulation | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | Load Stability | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | Rated Power | 125W | 150W | 150W | 151.2W |
| | Ripple & Noise | 100mVp-p | 120mVp-p | 120mVp-p | 120mVp-p |
| | DC Adjustment Range | 4.75-5.5V | 10.8-13.2V | 13.5-16.5V | 21.6-26.4V |
| | Setup, Rise, Hold Time | 800ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load | | | |
| | Hold Time | 28ms/230VAC 20ms/115VAC at full load | | | |
| INPUT | Voltage Range | 90~132VAC /180~264 selected by switch, 248~373VDC | | | |
| | AC Current | 3A/115VAC 2A/230VAC | | | |
| | Frequency | 47~63Hz | | | |
| | Efficiency | 80% | 83% | 84% | 86% |
| | AC Current | 3A/115VAC 2A/230VAC | | | |
| | Inrush Current | Cold start 40A/230VAC | | | |
| | Leakage Current | <2mA / 240VAC | | | |
| PROTECTION | Over Load | 110~150% | | | |
| | | Protection: Hiccup mode, recovers automatically after fault condition is removed | | | |
| | Over Voltage(V) | 5.75~6.75V | 13.8~16.2V | 17.25~20.25V | 27.6~32.4V |
| | | Protection: Hiccup mode, recovers automatically after fault condition is removed | | | |
| ENVIRONMENT | Working Temp., Humidity | -10°C+70°C, 20~90% RH | | | |
| | Storage Temp., Humidity | -20°C+85°C , 10~95% RH | | | |
| | Vibration | 10~500Hz, 2G 10min./1 cycle,period for 60 min. Each along X,Y, Z axes | | | |
| SAFETY | Withstand Voltage | I/P-O/P:3KVAC I/P-O/P:1.5KVAC O/P-FG: 0.5KVAC | | | |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC | | | |
| STANDARD | Safety Standard | Design refer to UL1012, EN60950 | | | |
| | EMC Standard | Design refer to EN55022 CLASSA | | | |
| OTHERS | Weight | | | | |
| | Packing | | | | |
| NOTE | 1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. | | | | |
| | 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μ parallel capacitor. | | | | |
| | 3.Tolerance: includes set up tolerance, line regulation and load regulation. | | | | |

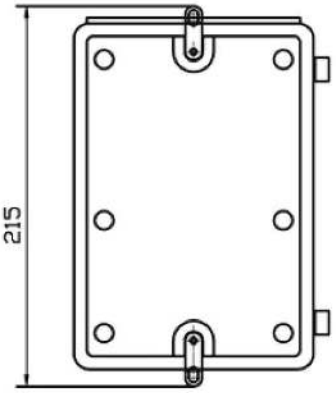
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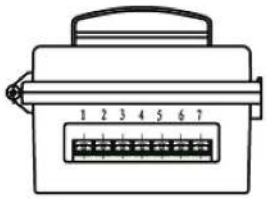
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### Outline and installation dimension



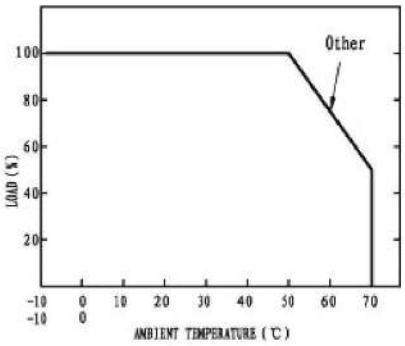




Terminal Pin No. Assignment:

| Pin No. | Assignment | Pin No. | Assignment |
|---|---|---|---|
| 1 | AC/L | 4, 5 | DC OUTPUT -V |
| 2 | AC/N | 6, 7 | DC OUTPUT +V |
| 3 | FG⏚ | | |

### Derating curve




### Static characteristis

