



**Features**

- AC input range selectable by switch
- PROTECTION : Shortcircuit, Overvoltage & Overload
- Forced air cooling by build-in DC fan
- 100% full load burn-in test
- PMW controls and regulated
- Build-in cooling Fan ON-OFF controls
- CE Marked on all models
- 1 Year Warranty

**INPUT SPECIFICATION**

|                       |  |
|-----------------------|--|
| Voltage Range         | 100-120 VAC<br>200-240 VAC                           |
| Frequency Range       | 50 - 60Hz  |
| Efficiency            | S-500-12 : 84%<br>S-500-24 : 86%<br>S-500-48 : 88%   |
| AC Current (typ.)     | 7A / 115VAC ; 3.5A / 230VAC                          |
| Inrush Current (typ.) | 18A / 115VAC ; 36A / 230VAC (for cold start at 25°C) |
| Leakage Current       | <3.5mA / 240VAC                                      |

**OUTPUT SPECIFICATION**

|                     |   |
|---------------------|---|
| Rated Current       | S-500-12 : 41A<br>S-500-24 : 20A<br>S-500-48 : 10A                |
| Rated Power         | 500Watts  |
| Voltage ADJ. Range  | ±10% (with V.ADJ)   |
| Voltage Tolerance   | ±1%   |
| Ripple & Noise(max) | S-500-12 : 240mVp-p<br>S-500-24 : 240mVp-p<br>S-500-48 : 300mVp-p |
| Setup Time          | 800ms / 115VAC; 300ms / 230VAC at full load                       |
| Rise Time           | 20ms / 115VAC; 50ms / 230VAC at full load                         |
| Hold Time(Typ.)     | 36ms / 115VAC; 80ms / 230VAC at full load                         |

**PROTECTION**

|                   |  |
|-------------------|--|
| Overload          | 105% to 135% rated load current<br>Protection Type : Fold back current limiting, recovers automatically after fault condition is removed |
| Overvoltage       | Protection Type : Hiccup mode, recover automatically after fault condition is removed  |
| Fan Control,O.T.P | RTH1 or RTH250°C FAN ON, 45°C FAN, 70°C output shut down   |
| Temp. Coefficient | ±0.03%/°C(0-50°C)  |

**ENVIRONMENT**

|                      |  |
|----------------------|--|
| Temperature          | Working : -20°C to +60°C (derating is required according to temperature)<br>Storage : -40°C to +85°C (with no icing or condensation) |
| Humidity             | Working : 20% to 90% RH<br>Storage : 10% to 95% RH   |
| Vibration Resistance | 10 to 500Hz, 10min/1cycle (2G) for 60min each in X, Y, Z directions  |

**STANDARDS**

|                  |                                    |
|------------------|------------------------------------|
| Safety Standards | Meet the UL1950, TUV EN60950-1     |
| EMC Standards    | Meet the EN55022 CLASS B Equipment |

**SECURITY**

|                      |   |
|----------------------|---|
| Isolation Resistance | I/P and O/P ; I/P and FG ; O/P and FG : 100MΩ at 500VDC, 25°C, 70% RH   |
| Dielectric Strength  | Between I/P and O/P : 1.5kVAC for 1 min<br>Between I/P and F.G : 1.5kVAC for 1 min<br>Between O/P and F.G : 0.5kVAC for 1 min |

**OTHER SPECIFICATION**

|                   |               |
|-------------------|---------------|
| Weight            | 1.35kg        |
| Dimension (L*W*H) | 238*124*65 mm |

**ORDER CODE**

| MODEL    | VOLTAGE | CURRENT |
|----------|---------|---------|
| S-500-12 | 12VDC   | 41A     |
| S-500-24 | 24VDC   | 20A     |
| S-500-48 | 48VDC   | 10A     |

**DIMENSIONS**

**S-500**

Terminal Pin No. Assignment

| Pin No. | Assignment   |
|---------|--------------|
| 1       | AC/L         |
| 2       | AC/N         |
| 3       | FG           |
| 4,5,6   | DC OUTPUT -V |
| 7,8,9   | DC OUTPUT +V |

Dimension

| PARAMETER | VALUE  |
|-----------|--------|
| Length    | 238mm  |
| Breadth   | 124mm  |
| Height    | 65mm   |
| Weight    | 1.35kg |