

STDA25A SERIES



25W Desktop Power Supply for I.T. Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available From 5VDC Thru 48VDC
- Approved as Limited Power Source (LPS), Splash Proof
- Class I Insulation
- Input Surge Current, Over Voltage, Over Load and Output Voltage protection.
- Energy Star 2.0, CEC V/IV, and RoHS compliance

2 Year Warranty

Approvals:           

Single Output

| Model Number | Output Voltage | Max. Output Current | Total Regulation | Max Output Power |
|--------------|----------------|---------------------|------------------|------------------|
| STDA25A-S02 | 05 ~ 06 VDC | 3.00 ~ 2.75 A | 5% | 16.5W |
| STDA25A-S03 | 06 ~ 08 VDC | 3.30 ~ 2.50 A | 5% | 20W |
| STDA25A-S04 | 08 ~ 11 VDC | 2.75 ~ 2.00 A | 5% | 22W |
| STDA25A-S05 | 11 ~ 13 VDC | 2.27 ~ 1.92 A | 5% | 25W |
| STDA25A-S06 | 13 ~ 16 VDC | 1.92 ~ 1.56 A | 5% | 25W |
| STDA25A-S07 | 16 ~ 21 VDC | 1.56 ~ 1.19 A | 5% | 25W |
| STDA25A-S08 | 21 ~ 27 VDC | 1.19 ~ 0.92 A | 3% | 25W |
| STDA25A-S09 | 27 ~ 33 VDC | 0.92 ~ 0.75 A | 3% | 25W |
| STDA25A-S10 | 33 ~ 40 VDC | 0.75 ~ 0.62 A | 3% | 25W |
| STDA25A-S11 | 40 ~ 48 VDC | 0.62 ~ 0.52 A | 3% | 25W |

The output voltage under 30V had been approved by TUV/PSE.

The model number of S02~S11 had been approved by CEC Level V.

Electrical Characteristics

| Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------------------------------|--|-------|------|------|------|
| Input Voltage | Operating Voltage | 90 | | 264 | VAC |
| Input Frequency | | 47 | | 63 | Hz |
| Output Power Range | Vin=90 to 264VAC | 0 | | 25 | W |
| Input Current (Low Line) | Io=Full load, Vin=115VAC | | | 0.4 | A |
| Input Current (High Line) | Io=Full load, Vin=230VAC | | | 0.25 | A |
| Low Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=115VAC | | 12 | 15 | A |
| High Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=230VAC | | 26 | 30 | A |
| Efficiency | Io=Full Load, Vin=230VAC | 75 | 85 | 95 | % |
| Line Regulation | Io=Full Load | | 0.5 | 1 | % |
| Load Regulation | Vin=230VAC | 1 | 3 | 5 | % |
| Over Voltage Protection | | | Nil | | % |
| Over Current Protection | | 110 | | 150 | % |
| Transient Response | Io=Full Load to Half Load, Vin=100VAC | | | 4 | mS |
| Hold-Up Time | Io=Full Load, Vin=110VAC | 12 | 14 | 16 | mS |
| Start Up Time | Io=Full Load, Vin=100VAC | | 0.25 | 0.5 | S |
| Ripple & Noise (Peak to Peak) | Full Load, Vin=90VAC | | 0.5 | 1 | % |
| Safety Ground Leakage Current | Io=Full Load, Vin=240VAC | | 0.5 | 0.75 | mA |
| Temperature Coefficient | All output | -0.04 | | 0.04 | %/°C |
| No-Load Power Consumption | No Load, Vin=240VAC | 0 | 0.4 | 0.5 | W |

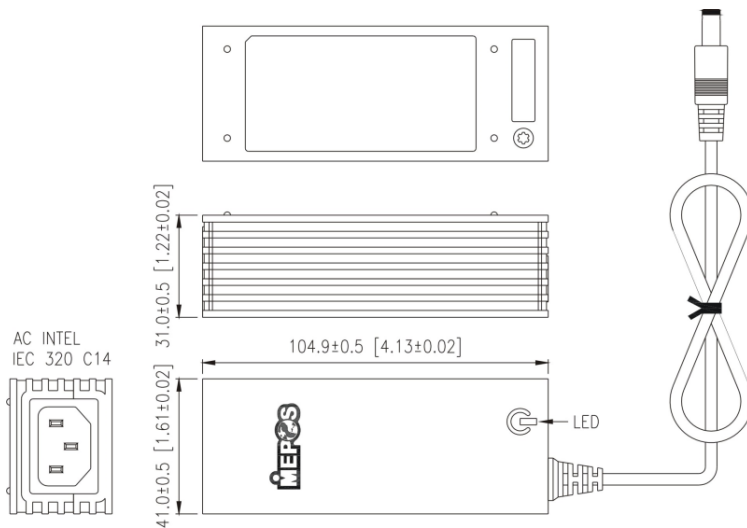
Conditions

| Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|---|-----------------|------|------|------|------|
| Operating Temperature | | 0 | 40 | 70 | °C |
| Storage Temperature | | -40 | | 85 | °C |
| Relative Humidity | | 5 | | 95 | % |
| Operation temperature at 25°C, calculated per MIL-HDBK-217F | | 0.3M | | | Hrs |
| Derate linearly from 100% load at 40°C to 50% load at 70°C | | | | | |

Approvals and Compliance

| Parameter | Test Conditions | Min. | Unit |
|--|-----------------------|------|-------|
| Dielectric Withstanding Voltage for Primary to secondary | Primary to secondary | 4242 | VDC |
| Dielectric Withstanding Voltage for Primary to Ground | Primary to ground | 2121 | VDC |
| Isolation Resistance | Test Voltage = 500VDC | 50 | MΩ |
| EMI requirements for CISPR-22 | Vin=220VAC | B | CLASS |
| EMI requirements for FCC PART-15 | Vin=110VAC | B | CLASS |

Mechanical and PIN out



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 170g
(Exclude the input cord)
3. Optional output connector.