

## 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
- FCC Class B Certified
- Single Output 5-24V DC
- OVP, OCP, OTP SCP



## 25HK-AB-xAz-D56 Series

30W External AC/DC Desktop Power Supply



The 25HK-AB-xAz-D56 Series is a consistent and reliable 30W External AC/DC Desktop Power Supply. Designed for use in applications such as commercial AV, broadcasting and control panels. This series is supplied with a IEC C14 input connection and supports input voltages of 90~264V AC 47~63Hz.

### Models

| Model Number        | Output Voltage (V DC) | Output Current (A) | Output Power (W) |
|---------------------|-----------------------|--------------------|------------------|
| 25HK-AB-050A400-D56 | 5                     | 4                  | 20               |
| 25HK-AB-060A300-D56 | 6                     | 3                  | 18               |
| 25HK-AB-090A250-D56 | 9                     | 2.5                | 22.5             |
| 25HK-AB-120A250-D56 | 12                    | 2.5                | 30               |
| 25HK-AB-240A125-D56 | 24                    | 1.25               | 30               |

### 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   | --  | 0.8     | --   | A     |                              |
| Inrush Current  | 0   | --      | 60   | A     | At cold start, 100 / 240V AC |
| Leakage Current | --  | --      | 0.25 | mA    |                              |

## Output Data

|                          | Min | Typical | Max | Units | Notes                                                  |
|--------------------------|-----|---------|-----|-------|--------------------------------------------------------|
| Output Voltage           | --  | 5       | --  | %     |                                                        |
| Ripple & Noise           | --  | --      | 100 | mV    |                                                        |
| Over Current Protection  |     |         |     |       | Overload conditions shall decrease the output voltage. |
| Short Circuit Protection |     |         |     |       | Auto Recovery                                          |
| Over Voltage Protection  |     |         |     |       | Will recover if the fault condition is removed         |

## Environmental Data

|                       | Min | Typical | Max | Units | Notes                |
|-----------------------|-----|---------|-----|-------|----------------------|
| Operating Temperature | 0   | --      | +40 | °C    |                      |
| Storage Temperature   | -20 | --      | +80 | °C    |                      |
| Operating Humidity    | 10  | --      | 95  | %     | Operating 10% to 90% |
| Operating Humidity    | 10  | --      | 95  | %     | Storage 5% to 95%    |

## Other Information

|            | Min | Typical | Max | Units      | Notes                                     |
|------------|-----|---------|-----|------------|-------------------------------------------|
| Isolation  | --  | --      | --  | --         | AC 3000Vrms, 4mA, 1 Minute for type test. |
| MTBF       | --  | 50,000  | --  | hrs        |                                           |
| Weight     |     |         |     | 200 +/-10g |                                           |
| 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        |                                |
| Harmonic Standard   | EN 61000-3-2 |            | Class D  |                                |
| Voltage fluctuation | EN 6100-3-3  | Pass       |          | Voltage fluctuations & Flicker |

## EMC Immunity (2014/30/EU)

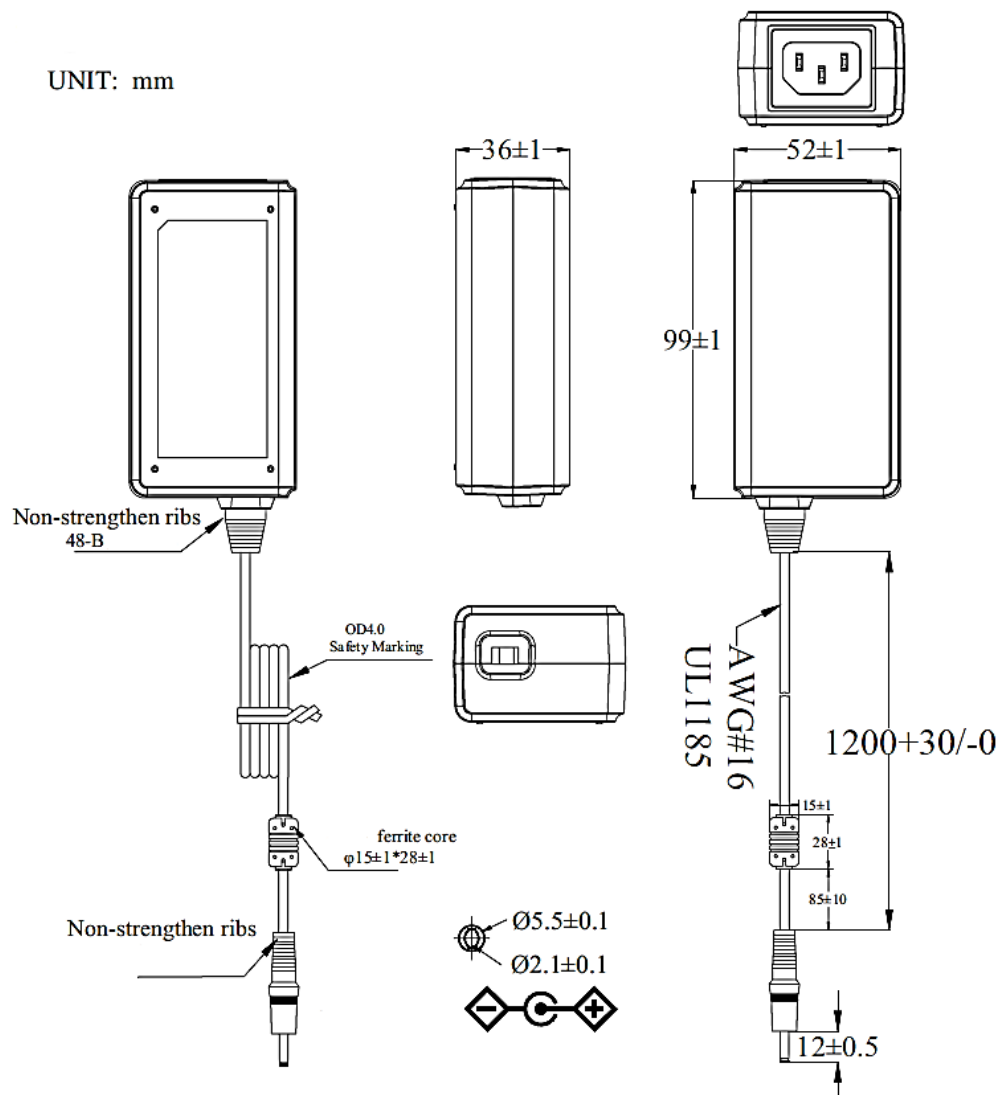
|                        | Standard       | Test Level | Criteria | Notes                                                                   |
|------------------------|----------------|------------|----------|-------------------------------------------------------------------------|
| ESD                    | IEC 61000-4-2  |            | B        | Contact: +/- 4KV; Air: +/- 8KV                                          |
| RS                     | IEC 61000-4-3  |            |          | Frequency: 80-1000MHz;<br>Field Strength: 3V/M ' 80% AM (1KHz)          |
| EFT                    | IEC 61000-4-4  |            | A/B      | 0.5/1.0KV on input AC power ports                                       |
| Surge                  | IEC 61000-4-5  |            | A        | Line to Line: +/- 1KV (peak);<br>Line to F.G: +/- 2KV (peak)            |
| Conducted              | IEC 61000-4-6  |            |          | CS: 0.15~ 80MHz, 3Vrm, 80% AM, 1kHz                                     |
| PFMF                   | IEC 61000-4-8  |            |          | 50 Hz or 60Hz, 1A/m                                                     |
| Dips and Interruptions | IEC 61000-4-11 |            |          | V/D: >95% reduction for 0.5 period<br>VI:>95% reduction for 250 peroid. |

## 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 –(US)                                       |
| TUV                         | Yes (German/European)                           |
| RCM & C-Tick                | Yes – (Australian)                              |
| BIS                         | Yes – Not in 5V & 9V models                     |

## Mechanical Drawing (5V Model)



| Model Number        | Cable Length | Cable Type | Jack Barrel       |
|---------------------|--------------|------------|-------------------|
| 25HK-AB-050A400-D56 | 1200         | AWG16      | 2.1 x 5.5 x 12 mm |
| 25HK-AB-060A300-D56 | 1200         | AWG18      | 2.1 x 5.5 x 12 mm |
| 25HK-AB-090A250-D56 | 1800         | AWG18      | 2.1 x 5.5 x 12 mm |
| 25HK-AB-120A250-D56 | 1800         | AWG18      | 2.1 x 5.5 x 12 mm |
| 25HK-AB-240A125-D56 | 1830         | AWG18      | 2.1 x 5.5 x 12 mm |