



LEAN LINE  
BY SL POWER ELECTRONICS



Medical



Industrial

### FEATURES AND BENEFITS

|  |  |
|--|--|
| Medical & ITE Safety Approvals                               | CoC V5 Tier 2(2016)                                    |
| 2 x MOPP Input to Output Isolation                           | ≤0.15W Standby Power                                   |
| Suitable for Medical Equipment Up to Class BF <sup>(*)</sup> | 9V to 54V Outputs, Up to 65W                           |
| Low Leakage Current ≤100μA                                   | 5,000m Operating Altitude                              |
| DOE Efficiency Level VI                                      | AC Inlet IEC60320 C8 (class II) or C14 (class I) input |



### MODEL SELECTION

| Model Number  | Volts | Current | Rated Power | Ripple & Noise | Voltage Tolerance | Line & Load Regulation | Efficiency (Average) | Start Up Delay |
|---------------|-------|---------|-------------|----------------|-------------------|------------------------|----------------------|----------------|
| SLE65S0903N01 | 9.0V  | 5.4A    | 48.78W      | 200mV pk-pk    | ±5%               | Line: ±1%<br>Load: ±5% | 89.0%                | ≤3s            |
| SLE65S1203N01 | 12.0V | 5.4A    | 65.04W      | 200mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S1503N01 | 15.0V | 4.3A    | 64.5W       | 200mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S1803N01 | 18.0V | 3.6A    | 64.8W       | 200mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S2403N01 | 24.0V | 2.7A    | 64.8W       | 240mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S4803N01 | 48.0V | 1.3A    | 64.8W       | 300mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S0903F01 | 9.0V  | 5.4A    | 48.78W      | 200mV pk-pk    | ±5%               | Line: ±1%<br>Load: ±5% | 89.0%                | ≤3s            |
| SLE65S1203F01 | 12.0V | 5.4A    | 65.04W      | 200mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S1503F01 | 15.0V | 4.3A    | 64.5W       | 200mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S1803F01 | 18.0V | 3.6A    | 64.8W       | 200mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S2403F01 | 24.0V | 2.7A    | 64.8W       | 240mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |
| SLE65S4803F01 | 48.0V | 1.3A    | 64.8W       | 300mV pk-pk    | ±5%               |                        | 89.0%                | ≤3s            |

Notes:

1. Measured at output connector with 20MHz bandwidth and 0.1μF ceramic in parallel with 10μF electrolytic capacitors.
2. Other output voltages in the range of 9V through 54V are available, contact us for details.
3. "N" in the model number (SLE65S2403N01) indicates IEC60320 C8 inlet (class II). "F" indicates C14 type (class I). C6 (class I) and C18 (class II) inputs are available, Contact SL Power for details.
4. "03" in the model number indicates 2.5 x 5.5 x 9.5mm straight barrel type connector. Other output connector options are available, please contact our sales representative for details.
5. Power supply is not provided with a line cord.
6. Power supplies are not medical equipment (applied parts), medical product manufacturers shall take responsibility for further evaluation of class B/BF/CF compliance of their end product.



### INPUT

|  |                               |
|--|-------------------------------|
| Input Voltage and Frequency            | 90VAC-264VAC<br>47Hz-63Hz     |
| Input Current                          | 2.0A at 90VAC                 |
| Inrush Current                         | 120A max at 240VAC cold start |
| Touch Leakage Current <sup>(max)</sup> | ≤100μA at 264VAC              |

### EMI/EMC COMPLIANCE

|  |   |
|--|---|
| Conducted Emissions                                    | Medical: IEC/EN 60601-1-2, CISPR 11<br>ITE: EN55032, CISPR 22 |
| Radiated Emissions                                     | Medical: IEC/EN 60601-1-2, CISPR 11<br>ITE: EN55032, CISPR 22 |
| Immunity   | Medical: IEC/EN 60601-1-2<br>ITE: EN55024, CISPR 24           |
| Electro-Static Discharge (ESD) Immunity on Power Ports | EN61000-4-2, ±15kV air, ±8kV contact                          |
| Radiated RF EM Fields Susceptibility <sup>3</sup>      | EN61000-4-3, 10V/m, 3V/m<br>(80MHz-2.7GMHz)                   |
| Electrical Fast Transients (EFT)/Bursts                | EN61000-4-4, ±2kV on AC port, ±1kV on signal ports            |
| Surges, Line to Line (DM) and Line to Ground (CM)      | EN61000-4-5, ±1kV line to line (diff mode)                    |
| Conducted RF Immunity                                  | EN61000-4-6, 3Vrms, 6Vrms<br>(0.15MHz-80MHz)                  |
| Power Frequency Magnetic Field Immunity                | EN61000-4-8, 30A/m  |
| Voltage Dip Immunity                                   | EN61000-4-11, 0%, 70%, 0% of UT                               |
| Harmonic Current Emissions                             | EN61000-3-2, Class A  |
| Flicker Test   | EN61000-3-3   |

### PACKAGING

|                     |                                 |
|---------------------|---------------------------------|
| Weight, Packing Qty | 16kg, Individual Box: 40/carton |
|---------------------|---------------------------------|

### MECHANICAL DRAWING

- DC Cable<sup>(\*)3</sup>:** DC Cable : UL1185 16AWG 1200mm
- Connector<sup>(\*)4</sup>:** 2.5x5.5x9.5mm, fork type, center "+"

### SAFETY

|     |  |
|-----|--|
| CB  | Medical: IEC60601-1, ANSI/AAMI ES60601-1<br>ITE: IEC62638-1, UL62638-1 |
| UL  | Medical: CAN/CSA C22.2 NO. 60601-1<br>ITE: CAN/CSA C22.2 NO. 62638-1   |
| TUV | Medical: EN60601-1 ITE: EN62638-1                                      |
| CCC | China GB4943   |

### ENVIRONMENT

|                              |                                  |
|------------------------------|----------------------------------|
| Operating Temperature        | 0°C to 40°C                      |
| Storage Temperature          | -20°C to 60°C                    |
| Weight                       | 340 grams                        |
| Dimensions                   | 125.0mm x 62.0mm x 34.0mm        |
| Operating Humidity           | 10% RH to 90% RH, non-condensing |
| Storage Humidity             | 5% RH to 90% RH                  |
| Operating Altitude           | 5,000m                           |
| Dielectric Withstand Voltage | 5,656VDC input to output         |
| Insulation Resistance        | 10M Ohms, 500VDC input to output |

### PROTECTION

|                          |   |
|--------------------------|---|
| Overload Protection      | 120%-200% rated output power, Auto-recovery   |
| Overvoltage Protection   | 120%-200% rated output voltage input to reset |
| Short circuit Protection | Trip and restart - Hiccup Mode                |

### RELIABILITY

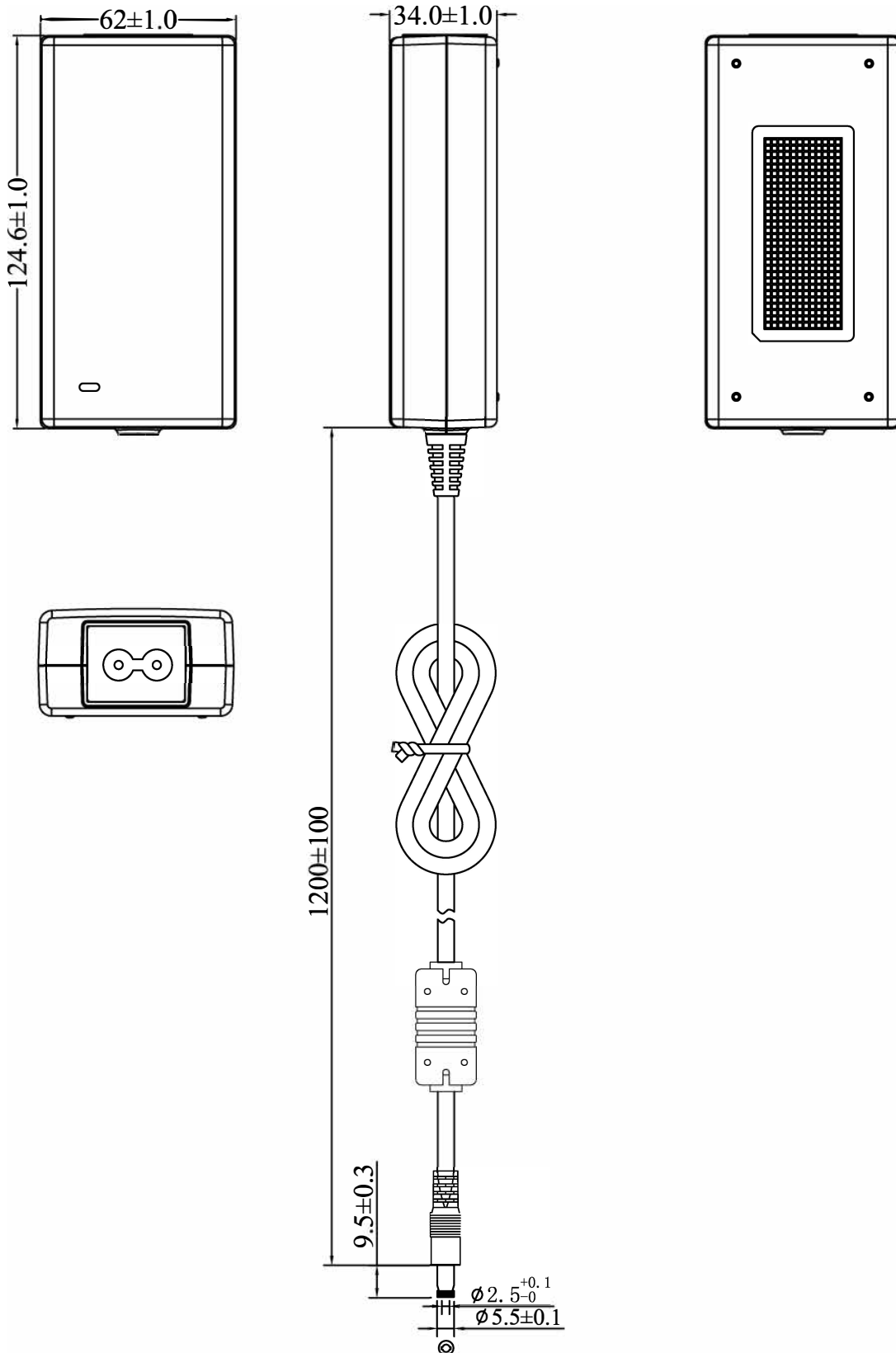
|      |                                     |
|------|-------------------------------------|
| MTBF | >100,000 hours MIL-HDBK-217 at 25°C |
|------|-------------------------------------|

### ISOLATION

|                         |                                     |
|-------------------------|-------------------------------------|
| Isolation Safety Rating | 4,000VAC Input to Output (2 x MOPP) |
|-------------------------|-------------------------------------|

#### Interchangeable AC Plug Options





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