



LEAN LINE
STEEL POWER ELECTRONICS



Medical



Industrial

FEATURES AND BENEFITS

Medical & ITE Safety Approvals

CoC V5 Tier 2(2016)

2 x MOPP Input to Output Isolation

≤0.075W Standby Power

Suitable for Medical Equipment Up to Class BF⁽¹⁾

6V to 52V Outputs, Up to 24W

DOE Efficiency Level VI

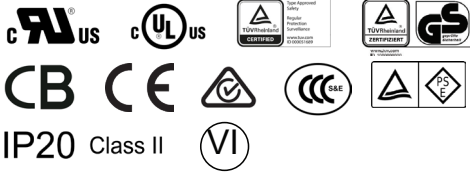
Up to 5,000m Operating Altitude

Low Leakage Current ≤10μA (8.1V-14V),
≤50μA (6.1V-8V & 14.1V-24V)

Interchangeable AC Plugs or Fixed Blade Versions



* Blades sold separately



MODEL SELECTION

Model Number	Volts ⁽²⁾	Current	Rated Power	Ripple & Noise ^{(max)(1)}	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
SLE24S0903B01	9.0V	2.3A	21.0W	120mV pk-pk	±5%	Line: ±1% Load: ±5%	86.20%	≤3s
SLE24S1203B01	12.0V	2.0A	24.0W	150mV pk-pk	±5%		86.20%	≤3s
SLE24S2403B01	24.0V	1.0A	24.0W	240mV pk-pk	±5%		86.20%	≤3s
SLE24S4803B01	48.0V	0.5A	24.0W	300mV pk-pk	±5%		86.20%	≤3s
SLE24S1203C01	12.0V	2.0A	24.0W	150mV pk-pk	±5%		86.20%	≤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 6.0V through 52V are available, contact us for details.
3. "B" in the model number (SLE24S0903**B**01) indicates interchangeable blade model. "C" = N.A.fixed blade input (12V model only)
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 fitted with the AC blade, this is to be ordered separately. See outline drawing below for details
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 47Hz-63Hz
Input Current	0.5A at 90VAC
Inrush Current	70A max at 240VAC cold start
Touch Leakage Current ^(max)	≤50μA at 264VAC

SAFETY

CB	Medical: IEC60601-1, ANSI/AAMI ES60601-1 ITE: IEC62638-1, UL62638-1
UL	Medical: CAN/CSA C22.2 NO. 60601-1 ITE: CAN/CSA C22.2 NO. 62638-1
TUV	Medical: EN60601-1 ITE: EN62638-1
RCM	ITE: AS/NZS 62638.1



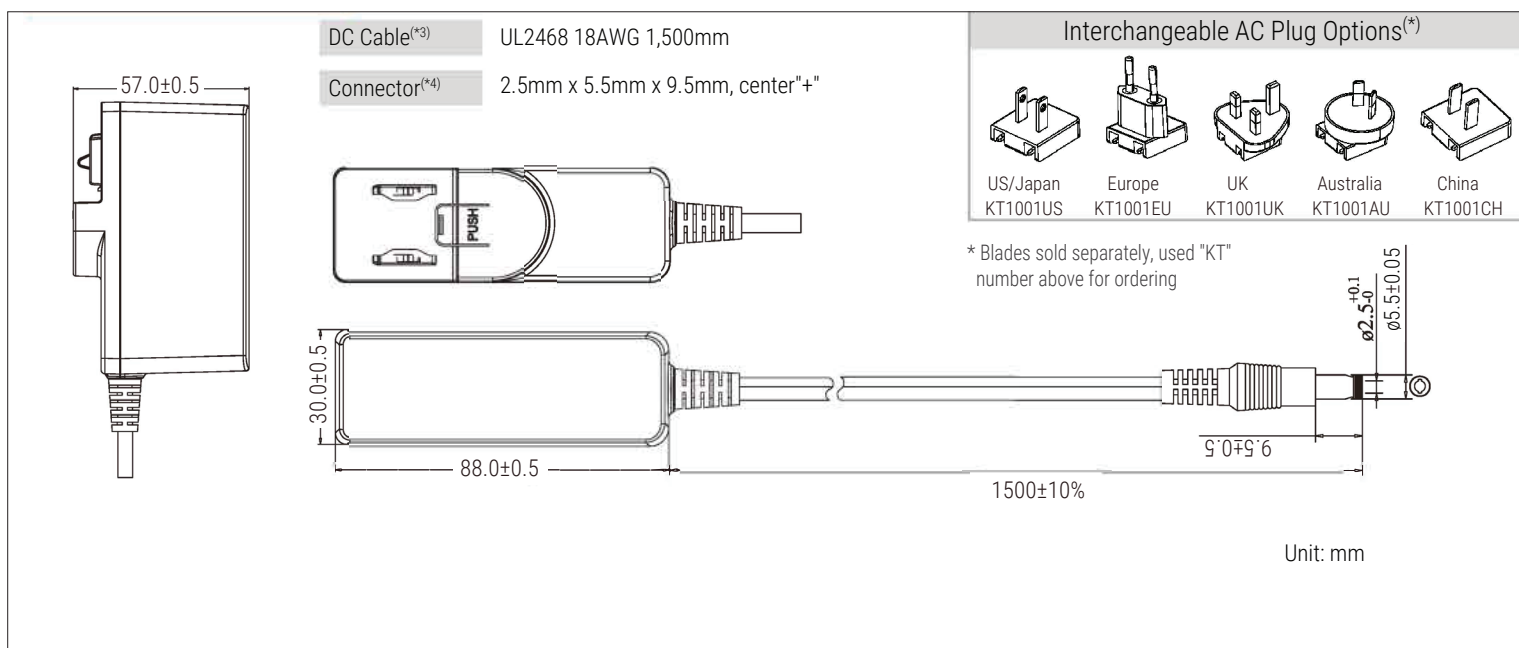
EMI/EMC COMPLIANCE

Conducted Emissions	Medical: IEC/EN 60601-1-2, CISPR 11 ITE: EN55022, CISPR 22
Radiated Emissions	Medical: IEC/EN 60601-1-2, CISPR 11 ITE: EN55022, CISPR 22
Immunity	Medical: IEC/EN 60601-1-2 ITE: EN55024, CISPR 24
Electro-Static Discharge (ESD) Immunity on Power Ports	EN61000-4-2, $\pm 15\text{kV}$ air, $\pm 8\text{kV}$ contact
Radiated RF EM Fields Susceptibility ³	EN61000-4-3, 10V/m, 3V/m (80MHz–2.7GHz)
Electrical Fast Transients (EFT)/Bursts	EN61000-4-4, $\pm 2\text{kV}$ on AC port, $\pm 1\text{kV}$ on signal ports
Surges, Line to Line (DM) and Line to Ground (CM)	EN61000-4-5, $\pm 1\text{kV}$ line to line (diff mode)
Conducted RF Immunity	EN61000-4-6, 3Vrms, 6Vrms (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	170g, Individual box: 60/carton, egg-crate: 50/carton
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MECHANICAL DRAWING



ENVIRONMENT

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C
Weight	170 grams
Dimensions	88mm x 30mm x 57mm
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	110%–200% rated output power, Auto-recovery
Overvoltage Protection	120%–150% 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
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ISOLATION

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