SLE140SPD SERIES

140 W Single Output
External Power Adapters



Advanced Energy's SLE140SPD series AC-DC power adapters feature medical and ITE safety approvals. It delivers up to 140 W GaN powered output with USB-C PD (Power Delivery), adopts PD3.1, PPS as its charging protocols, and meets proposed Department of Energy Level VII efficiency standard.

SPECIAL FEATURES

- Medical and ITE safety certifications
- USB-C with power delivery output
- ⩽ 0.15 W standby power
- Overvoltage, overcurrent and short circuit protection
- Meets proposed DoE Efficiency level VII
- Up to 5000 m operating altitude
- Low leakage current less than 100 µA
- AC inlet IEC60320 C8, C14

SAFETY

- IEC/UL/EN 60601-1-2
- IEC/UL/EN 62368-1 3rd edition

AT A GLANCE

Total Power

140 W

Input Voltage

90 to 264 VAC

# of Outputs

Single

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ELECTRICAL SPECIFICATIONS

Input	
Input Voltage Range	90 to 264 VAC (100 to 240 VAC nominal input range)
Frequency	47 to 63 Hz (rated 50 or 60 Hz)
Input Current	< 2.5 A at 100 VAC, and maximum load
Standby Power	< 0.15 W at 115 VAC/60 Hz, and 230 VAC/50 Hz
Inrush Current	< 150 A
Efficiency	89% minimum (28 V/5 A output), measured at 115/230 VAC 81.84% minimum (5 V/3 A output), measured at 115/230 VAC
Touch Leakage Current	⩽ 0.1 mA at 264 VAC, 60 Hz < 0.5 mA at 264 VAC, 60 Hz (for Class I)
Dielectric Withstand Voltage	Input to output: 4,000 VAC
Insulation Resistance	Input to output: 100 Mohms, 500 VDC
Output	
Output Voltage	5 V, 9 V, 12 V, 15 V, 20 V, 28 V
Voltage Regulation	±5%
Start-up Delay	⩽ 3 s at 90Vac to 264VAC input, full load
Hold-up Time	> 10 ms at 115 VAC, > 20 ms at 230 VAC, full load
Rise Time	< 200 ms (from 10% to 90% of output voltage), at 100 to 240 VAC and full load
Overvoltage Protection	110% to 160% rated output voltage, auto-recovery, hiccup mode
Overload Protection	105% to 150% rated output power, auto-recovery, hiccup mode
Short Circuit Protection	Trip and restart

Note 1: Measured at 115/230 VAC input, 25%, 50%, 75%, 100% of the rated load, and included DC cable loss without DC plug.

RELIABILITY

MTBF	> 100,000 hours at 25°C, according to the Standards Telcordia SR-332

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10 to +40°C ambient
Storage Temperature	-20 to +80°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000 m
Dimension	121.0 (L) x 66 (W) x 32.0 (H) mm
Case Material	PC (Polycarbonate). Class 94V-0
Case Color	Black

EMC/EMI COMPLIANCE

Conducted Emissions	EN/IEC 60601-1-2, EN 55032. Class B
Radiated Emissions	EN/IEC 60601-1-2, EN 55032. Class B
Electro-Static Discharge (ESD)	IEC 61000-4-2, EN 55035, IEC 60601-1-2. ±15 kV air, ±8 kV contact. Criterion Class A
Radiated Immunity	EN 61000-4-3, EN 55035, IEC 60601-1-2. Criterion Class A 3 V/m (80 MHz to 2700 MHz). Professional healthcare facility environment 10 V/m (80 MHz to 2700 MHz). Home healthcare environment
Electrical Fast Transients (EFT)	EN 61000-4-4, EN 55035, IEC 60601-1-2. ±2 kV for input power port. Criterion Class A
Surges	EN 61000-4-5, EN 55035, IEC 60601-1-2 ±1 kV line to line, ±2 kV line to PE. Criterion Class A
Conducted Immunity	EN 61000-4-6, EN 55035, IEC 60601-1-2. Criterion Class A. 3 Vrms 150 kHz to 80 MHz. 6 Vrms in ISM and amateur radio bands 150 kHz to 80 MHz. 80% AM at 1 kHz home healthcare environment.
Magnetic Field Immunity	EN 61000-4-8. Criterion Class A
Voltage Dip Immunity	EN 61000-4-11, EN 55035, IEC 60601-1-2 0% reduction for 0.5 period at 0°, 45°90°, 135°, 180°, 225°, 270°, 315°. 0% reduction for 1 period and 70% reduction for 25/30 period .Single phase at 0°

ORDERING INFORMATION - SLE140SPD SERIES

Model Number[1]	Output Voltage[2]	Line Regulation	Load Regulation	Input Configuration	Output Configuration
SLE140SPD96N01	5, 9, 12, 15, 20,28 VDC	± 2%	± 5%	C8 AC plug	Fixed DC cable, 1.2 m, type-C connector
SLE140SPD96F01	5, 9, 12, 15, 20,28 VDC	± 2%	± 5%	C14 AC plug	Fixed DC cable, 1.2 m, type-C connector
SLE140SPD00N01	5, 9, 12, 15, 20,28 VDC	± 2%	± 5%	C8 AC plug	USB type-C port
SLE140SPD00F01	5, 9, 12, 15, 20,28 VDC	± 2%	± 5%	C14 AC plug	USB type-C port

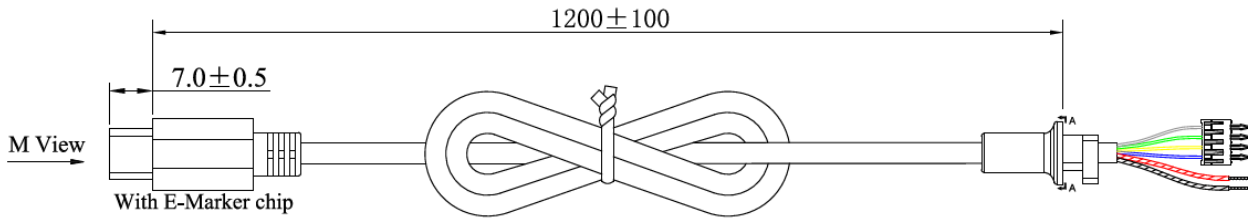
Note:
1. Power supplies are not medical equipment (applied parts), medical product manufacturers take responsibility for further evaluation of class B/BF/CF compliance of their end product.
2. See Output Voltage, Efficiency, and Output Power table below.

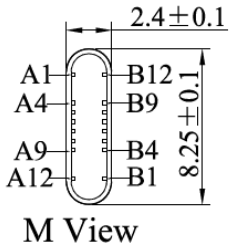
SLE140SPD Series Output Voltage, Output Power and Ripple & Noise table

Typ. Output Voltage	Rated Power	Minimum Output Voltage	Maximum Output Voltage	Output Current	Ripple & Noise[1]
5 VDC	15 W	4.75 VDC	5.25 VDC	0 to 3 A	200 mV pk-pk
9 VDC	27 W	8.55 VDC	9.45 VDC	0 to 3 A	200 mV pk-pk
12 VDC	36 W	11.40 VDC	12.60 VDC	0 to 3 A	200 mV pk-pk
15 VDC	45 W	14.25 VDC	15.75 VDC	0 to 3 A	200 mV pk-pk
20 VDC	100 W	19.00 VDC	21.00 VDC	0 to 5 A	300 mV pk-pk
28 VDC	140 W	26.60 VDC	29.40 VDC	0 to 5 A	300 mV pk-pk

Note:
1. Measured at output connector with 20 MHz bandwidth and 0.1 µF ceramic in parallel with 10 µF electrolytic capacitors.

MECHANICAL DRAWINGS - DC CABLE

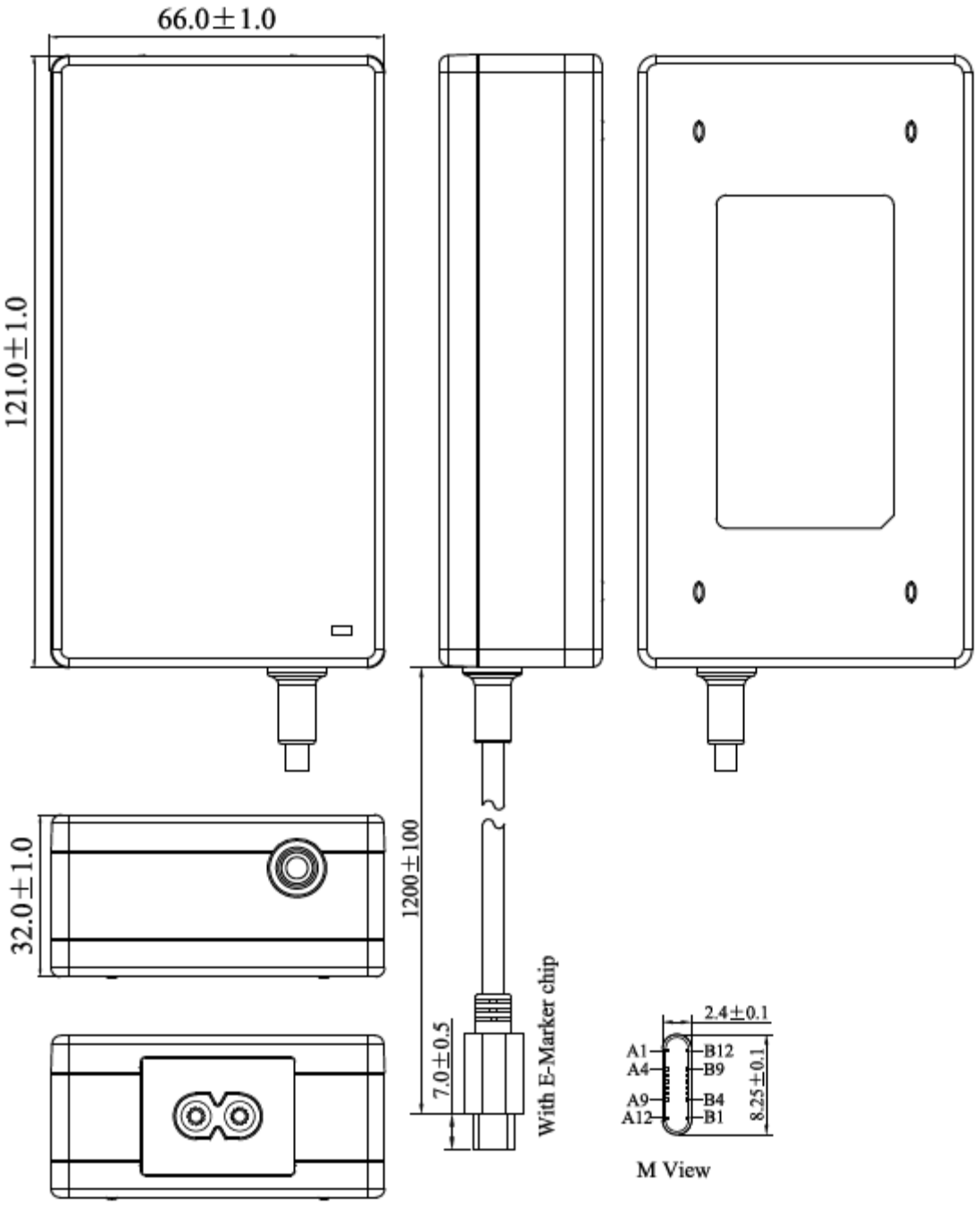




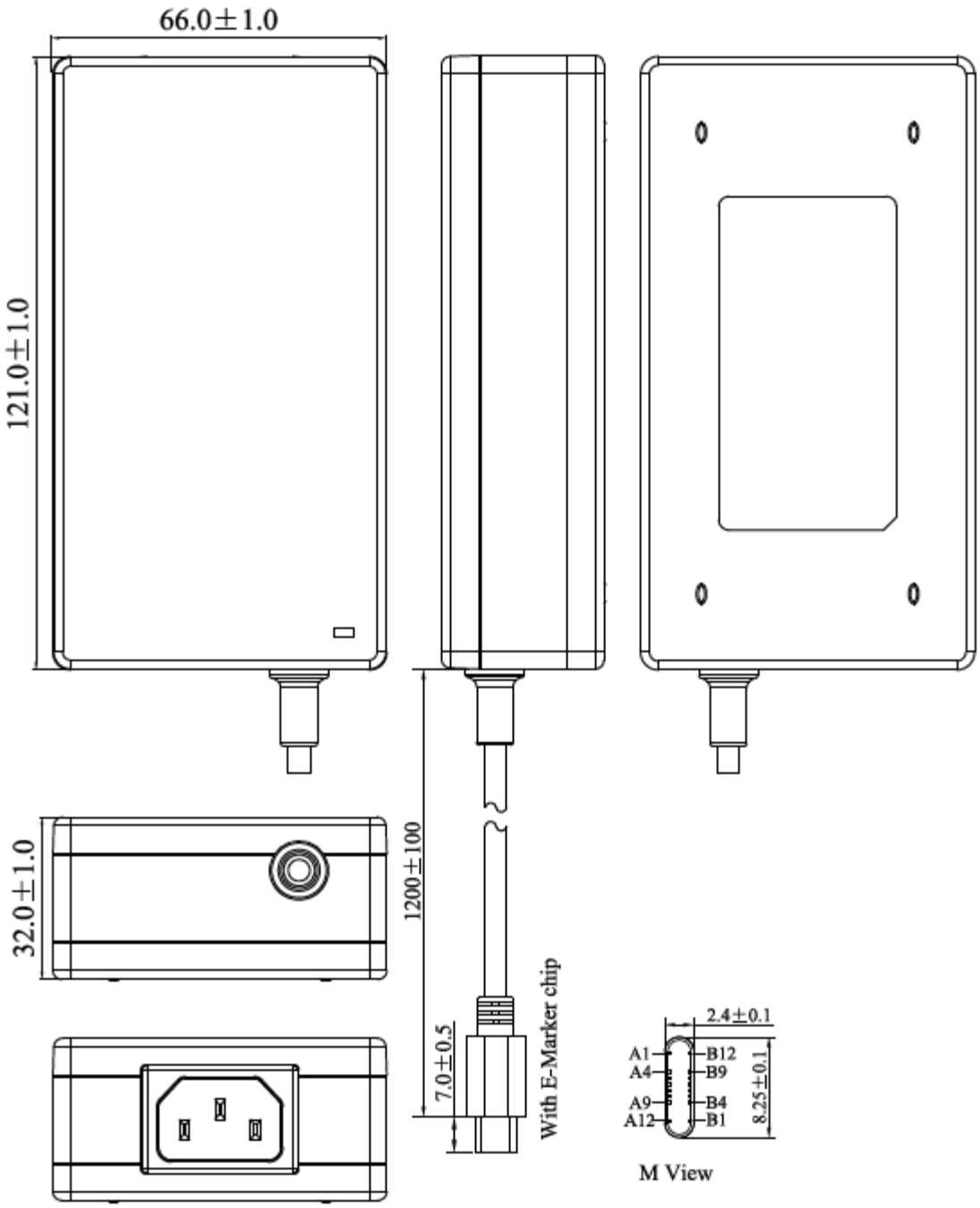
A4,B4,A9,B9	Vbus+
A1,B1,A12,B12	Vbus return
A5	CC1
A7,B7	D-
A6,B6	D+
B5	CC2

Specification:
1. Wire: 28AWG*4C (white,green,blue,yellow) + 18AWG*2C (red,black) 1.2M Type-C connector black.
2. All materials meet RoHS 2.0.

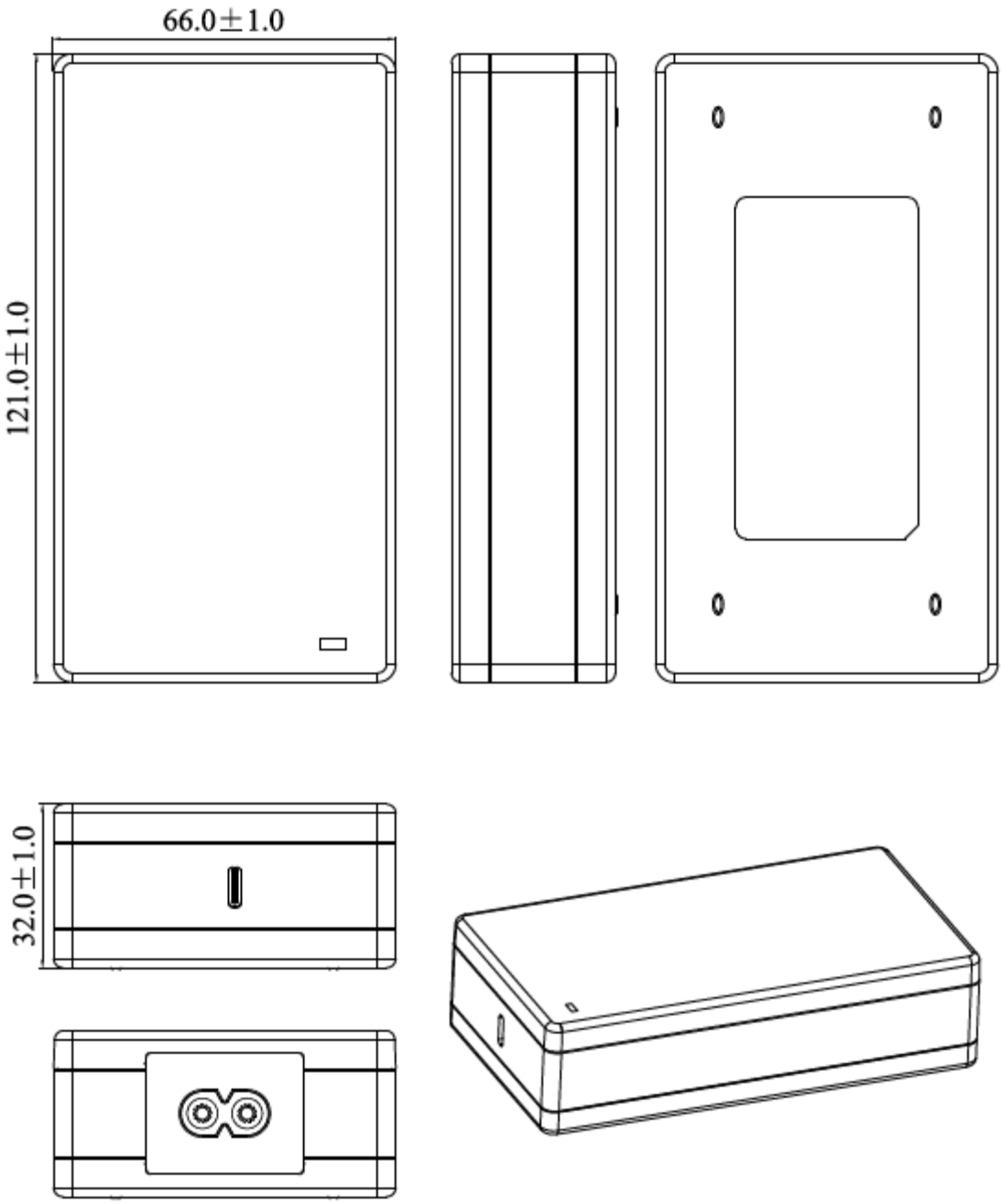
MECHANICAL DRAWINGS - SLE140SPD96N01



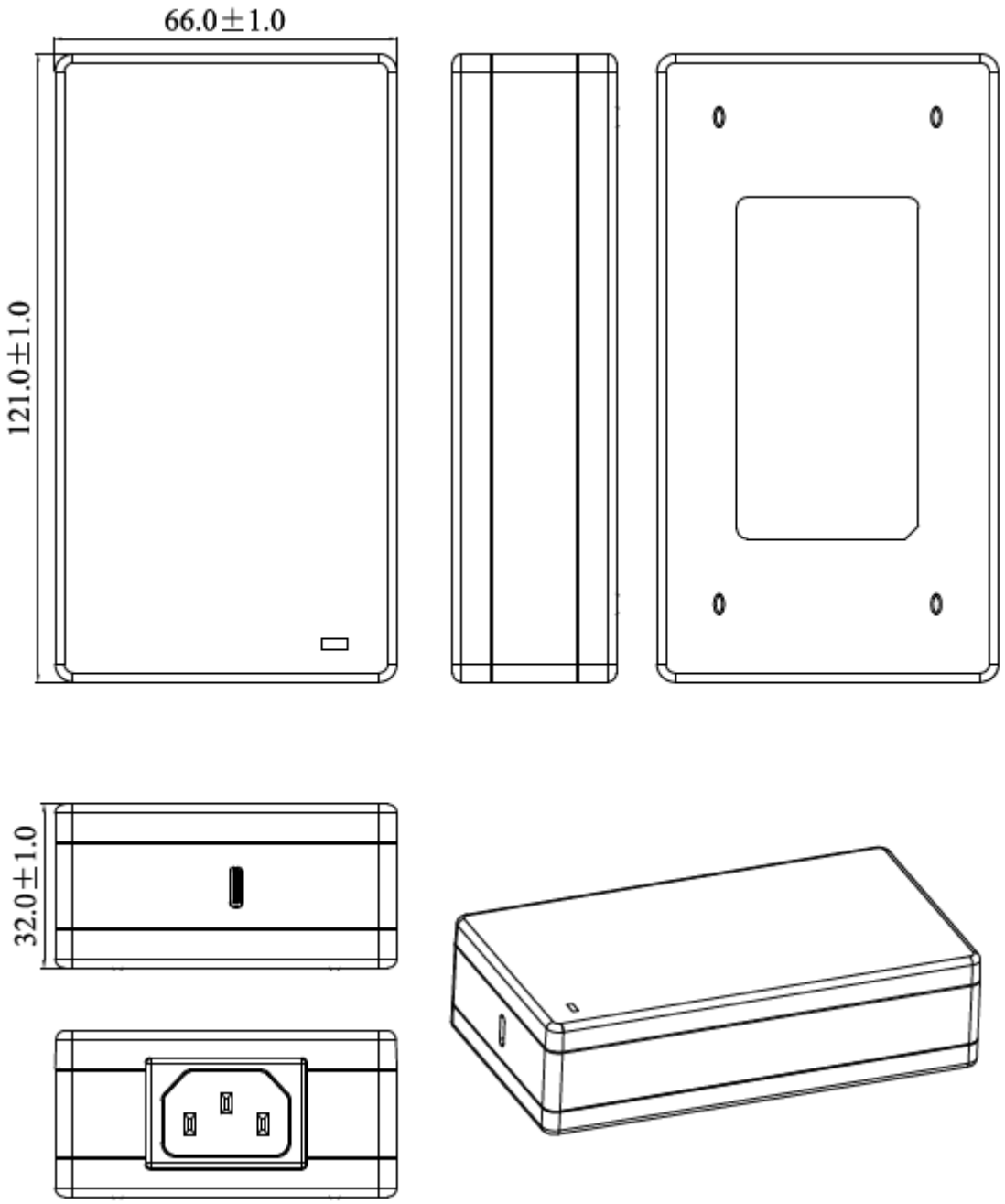
MECHANICAL DRAWINGS - SLE140SPD96F01



MECHANICAL DRAWINGS - SLE140SPD00N01



MECHANICAL DRAWINGS - SLE140SPD00F01



ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than four decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

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