

SL POWER SLE33 SERIES

33 W USB-PD

External Power Adapters



Medical



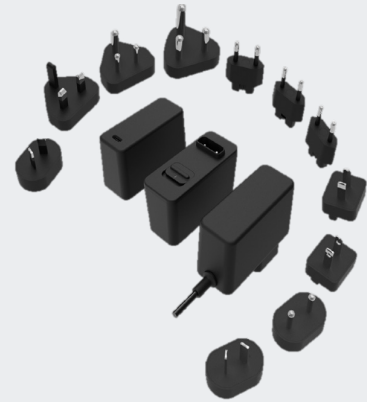
Data Center



Telecom



Industrial



LEAN LINE
BY THE POWER OF ENERGY

Advanced Energy's SL Power SLE33 series AC-DC power adapters feature both medical and ITE safety approvals. It delivers up to 33 W output with USB-C PD (Power Delivery)*, and meets Department of Energy Level VII requirements and European Code of Conduct V5 Tier 2 Directive efficiency standards.

SPECIAL FEATURES

- Medical and ITE safety certifications
- USB-C with power delivery output
- Suitable for medical equipment up to class BF
- ≤ 0.075 W standby power
- 2 x MOPP input to output isolation
- Overvoltage, overcurrent and short circuit protection
- EU CoC V5 Tier 2 compliant
- Meets DoE Efficiency level VII
- Up to 5000 m operating altitude
- Low leakage current less than 100 μ A
- AC input via interchangeable or fixed blades (class II)

SAFETY

- IEC/UL/EN60601-1 3.2 Edition
- IEC/UL/EN62368-1

Note*: Charge Protocol Supports: PD2.0, D3.0, QC2.0, QC3.0, QC4.0, PPS (@ 5V:3.3 to 11V/3A, @ 9V:3.3 to 16V/2A)

AT A GLANCE

Total Power

33 W

Input Voltage

80 to 264 VAC

of Outputs

Single
Programmable*



ELECTRICAL SPECIFICATIONS

Input	
Input Voltage Range	80 to 264 VAC
Frequency	47 to 63 Hz
Input Current	0.9 A @ 100 VAC
Inrush Current	80 A @ 240 VAC cold start
Touch Leakage Current	≤ 100 µA @ 264 VAC
Isolation Safety Rating	Input to output: 2 x MOPP
Dielectric Withstand Voltage	Input to output: 4,000 VAC
Insulation Resistance	Input to output: 10 Mohms, 500 VDC
Output	
Output Voltage	5 V, 9 V, 12 V, 15 V, 20 V
Voltage Regulation	±5%
Start-up Delay	≤ 3 s (full load)
Hold up Time	> 12 ms at 115/230 Vac input and full load
Rise Time	< 200 ms at 100 to 240 Vac at full load (DC output rise time from 10% to 90%)
Turn-on Overshoot	< +5% of output voltage
Overvoltage Protection	110% to 150% rated output voltage, auto-recovery
Overload Protection	105% to 140% rated output power, auto-recovery

RELIABILITY

MTBF	> 100,000 hours Telcordia SR-332 at 25°C
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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10 to +40°C ambient
Storage Temperature	-20 to +70°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000 m
Weight	160 g
Dimension	90.5 x 48 x 33.5 mm
Packing Quantity	60 pcs/carton for versions with fixed output cable; 72 pcs/carton for versions with built-in USB C connector

EMC/EMI COMPLIANCE

Conducted Emissions	Meet EN/IEC60601-1-2 & EN55032:2015/A11:2020, class B
Radiated Emissions	Meet EN/IEC60601-1-2 & EN55032:2015/A11:2020, class B
Radiated Immunity	IEC61000-4-3 2020,EN55035,IEC60601-1-2. 3V/m 80MHz-2.7GHz. 10V/m 80MHz-2.7GHz. Criterion Class A
Electro-Static Discharge (ESD) Immunity on Power Ports	IEC61000-4-2,EN55035,IEC60601-1-2, ±15 kV air, ±8 kV contact. Criterion Class A
Harmonic Current Emissions	EN 61000-3-2
Electrical Fast Transients (EFT) / Bursts	IEC61000-4-4,EN55035,IEC60601-1-2, ± 2KV for input power port(AC/DC). Criterion Class A
Surges, Line to Line (DM) and Line to Ground (CM)	IEC61000-4-5,EN55035,IEC60601-1-2. ±1KV line to line.Criterion Class A
Conducted RF Immunity	IEC61000-4-6 2023,EN55035,IEC60601-1-2, 3 Vrms, 6 Vrms (0.15 MHz to 80 MHz)
Voltage Dip Immunity	IEC61000-4-11,EN55035,IEC60601-1-2

ORDERING INFORMATION - SLE33 SERIES

Model Number	Maximum Power	Output Voltage	Maximum Load ¹	Ripple & Noise ²	Line Regulation	Load Regulation	Output Configuration ³	Input Configuration ⁴
SLE33SPD96B01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	1.2m cable, USB C Conn.	Class II, Interchangeable Blades (Sold Separately)
SLE33SPD00B01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	Built-in USB C Conn. no cable	Class II Interchangeable Blades (Sold Separately)
SLE33SPD96C01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	1.2m cable, USB C Conn.	Class II, Fixed US Plug
SLE33SPD96M01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	1.2m cable, USB C Conn.	Class II, Fixed EU Plug
SLE33SPD96G01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	1.2m cable, USB C Conn.	Class II, Fixed UK Plug
SLE33SPD96H01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	1.2m cable, USB C Conn.	Class II, Fixed AU Plug
SLE33SPD00C01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	Built-in USB C Conn. no cable	Class II, Fixed US Plug
SLE33SPD00M01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	Built-in USB C Conn. no cable	Class II, Fixed EU Plug
SLE33SPD00G01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	Built-in USB C Conn. no cable	Class II, Fixed UK Plug
SLE33SPD00H01	33 W	5, 9, 12, 15, 20 V	3 A	200 mV pk-pk	± 2%	± 5%	Built-in USB C Conn. no cable	Class II, Fixed AU Plug

Note:

1. See Output Voltage, Efficiency, and Output Power table below.

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

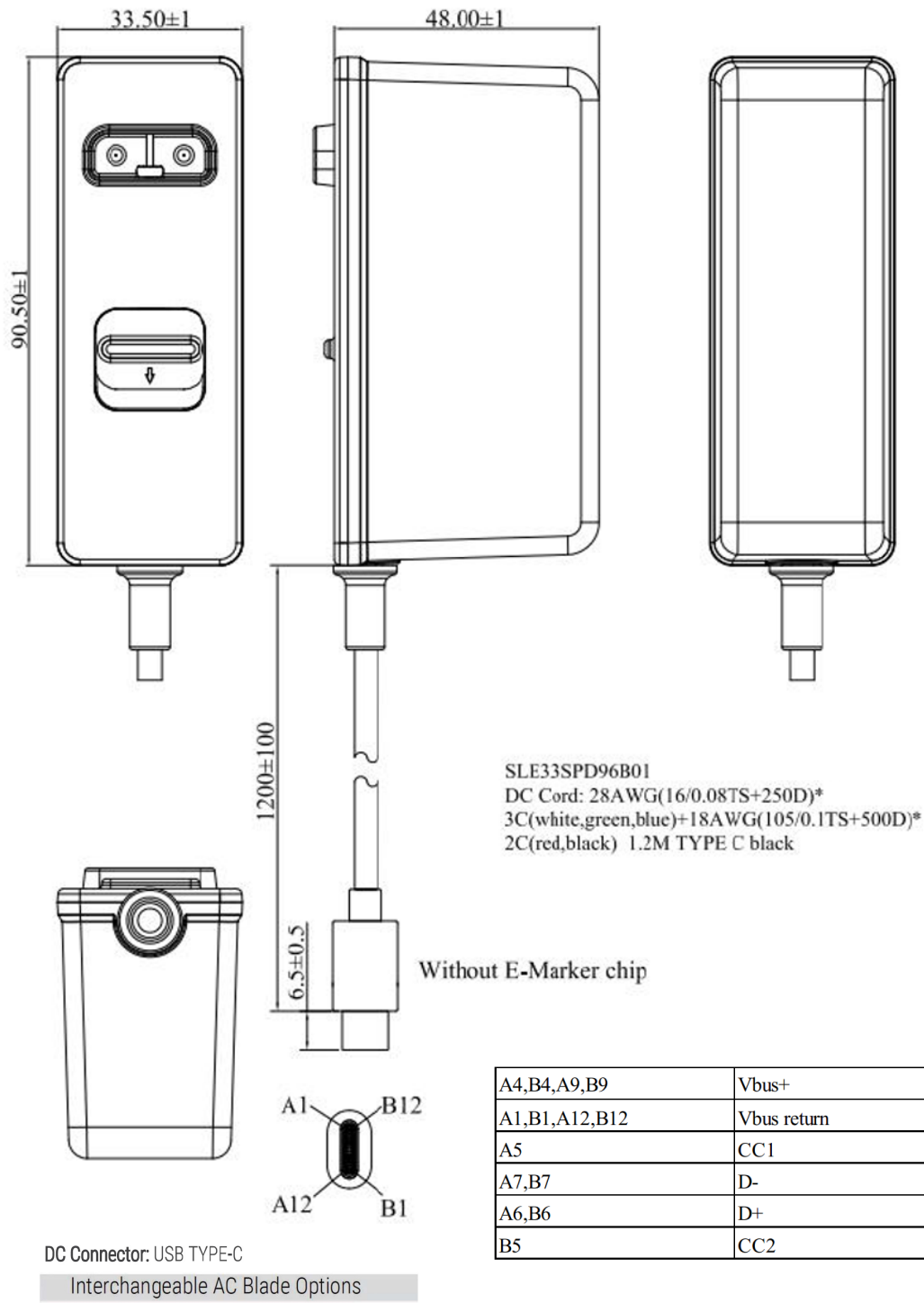
3. Power supply with built-in USB C connector is not provided with a USB-C cable.

4. 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.

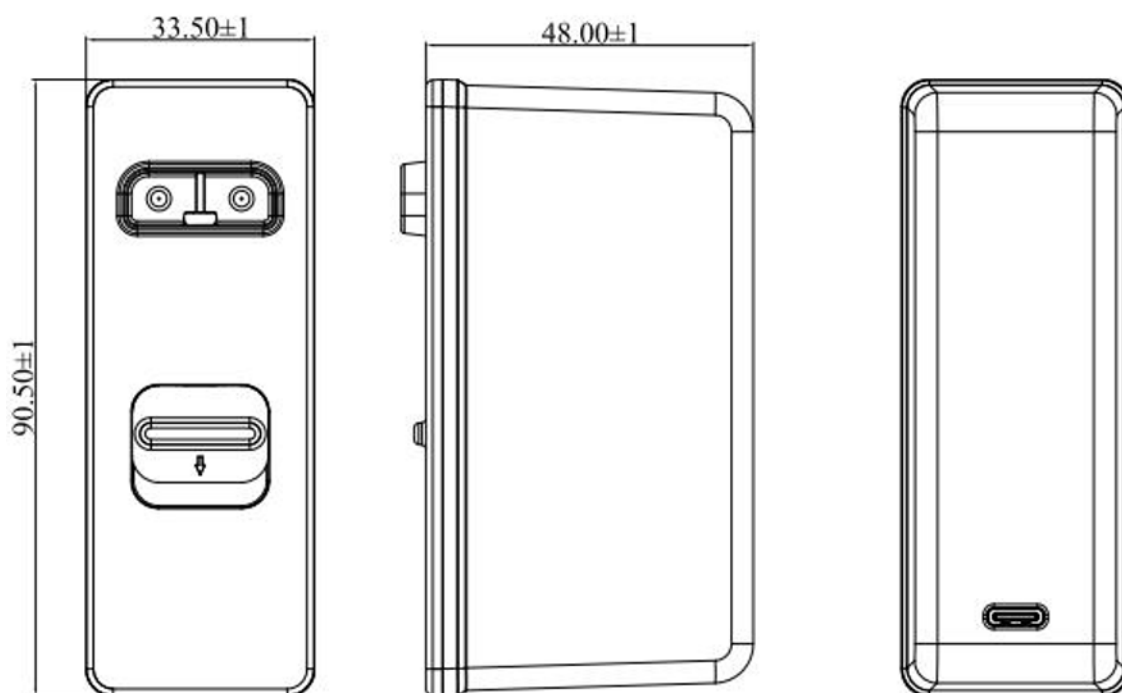
SLE33 Series Output Voltage, Efficiency, and Output Power table

Rated Power	Minimum Voltage	Nominal Voltage	Maximum Voltage	Output Current	Average Efficiency
15 W	4.75 VDC	5.00 VDC	5.25 VDC	3.0 A	81.84%
27 W	8.55 VDC	9.00 VDC	9.45 VDC	3.0 A	87.30%
30 W	11.40 VDC	12.00 VDC	12.60 VDC	2.5 A	87.70%
33 W	14.25 VDC	15.00 VDC	15.75 VDC	2.2 A	88.03%
33 W	19.00 VDC	20.00 VDC	21.00 VDC	1.65 A	88.03%

MECHANICAL DRAWINGS (UNIT: MM)



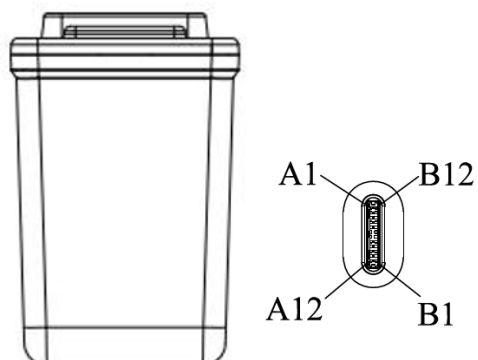
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SLE33SPD00B01

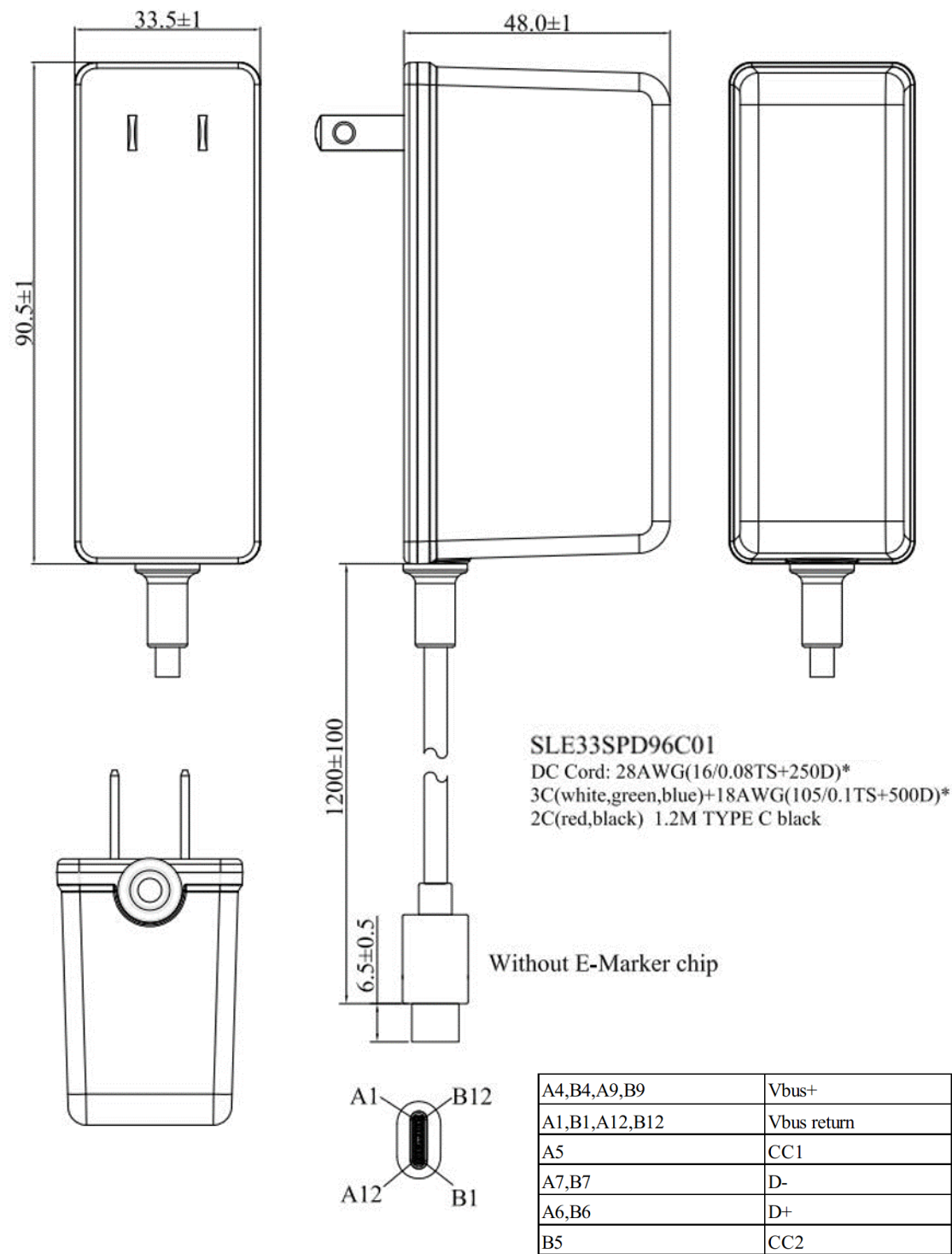
DC Cord: N/A

DC Connector: USB TYPE-C

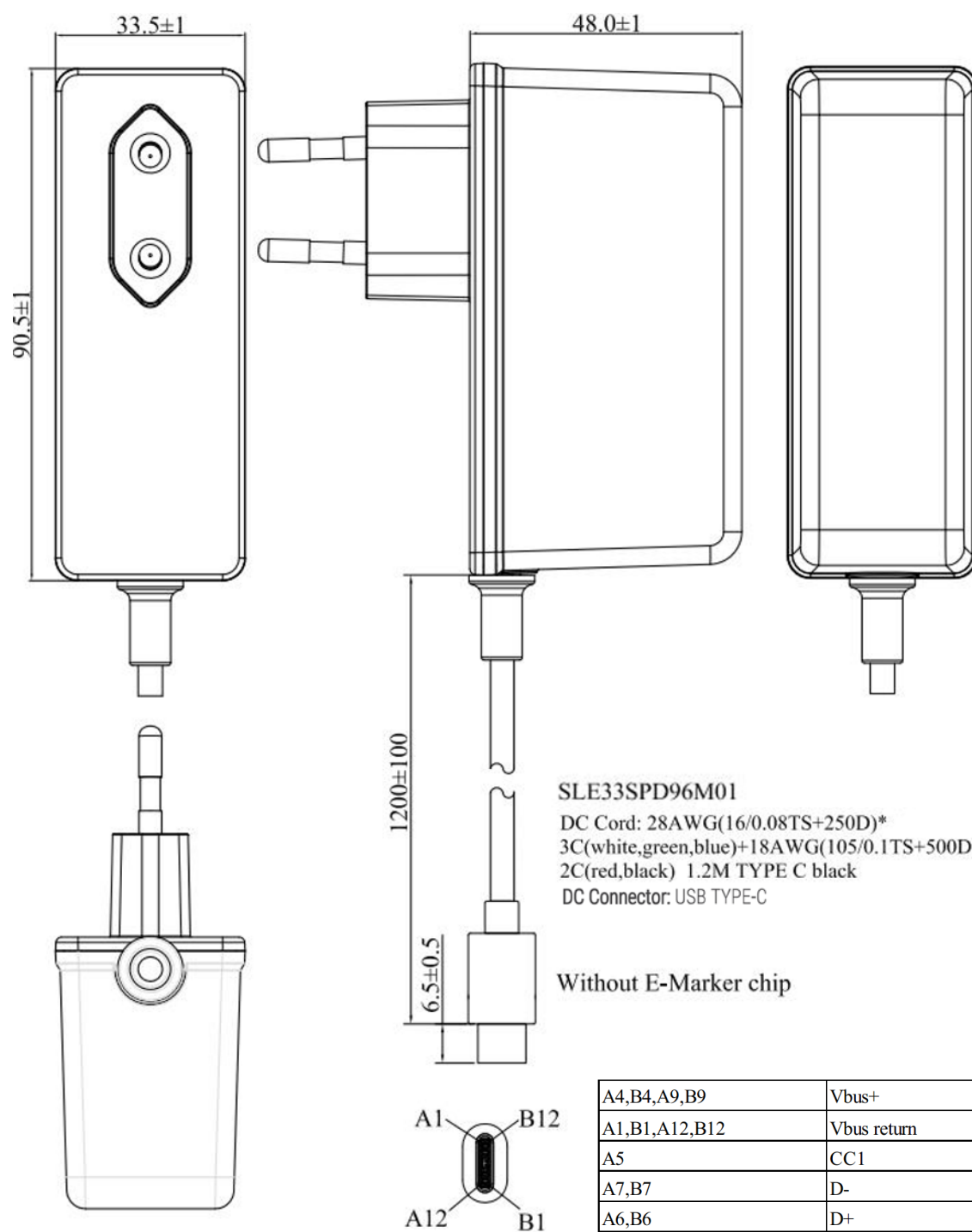


A4,B4,A9,B9	Vbus+
A1,B1,A12,B12	Vbus return
A5	CC1
A7,B7	D-
A6,B6	D+
B5	CC2

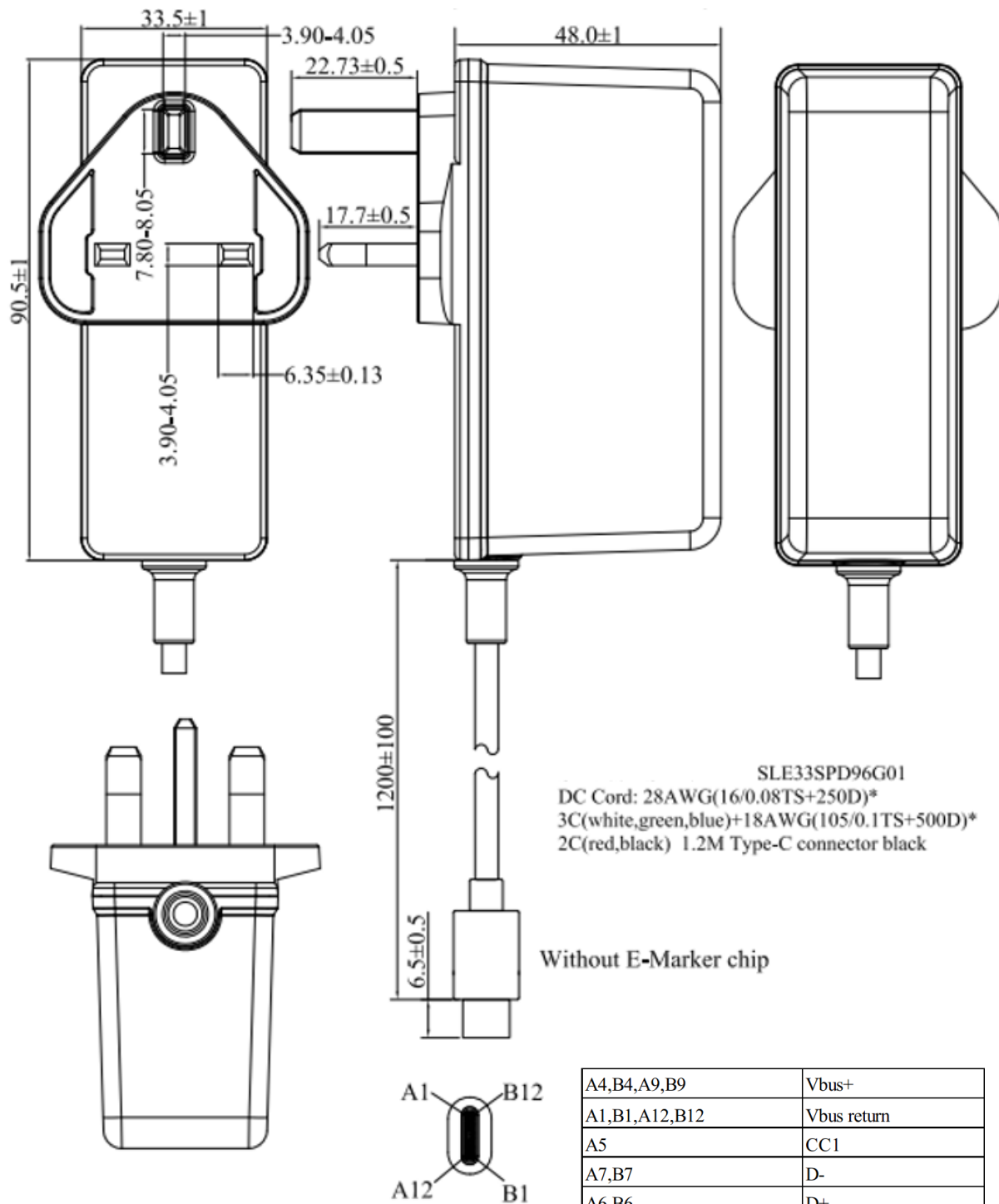
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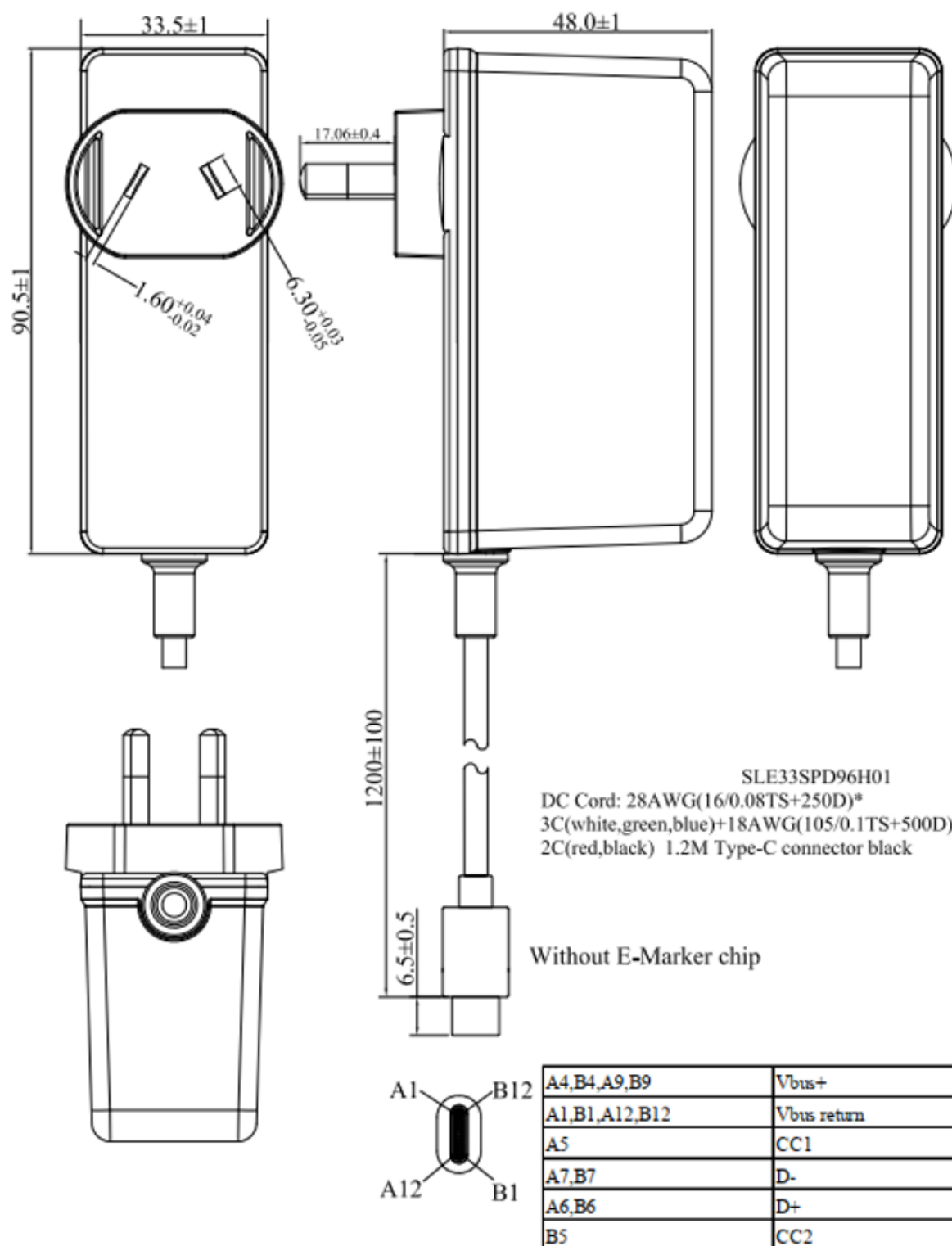
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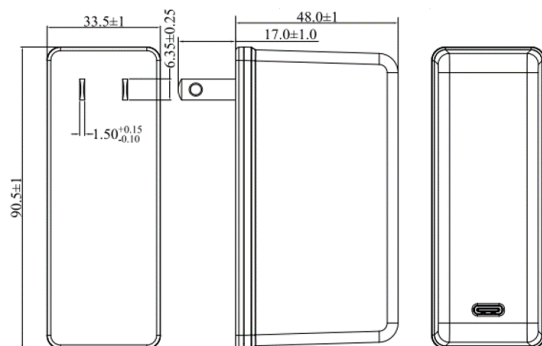
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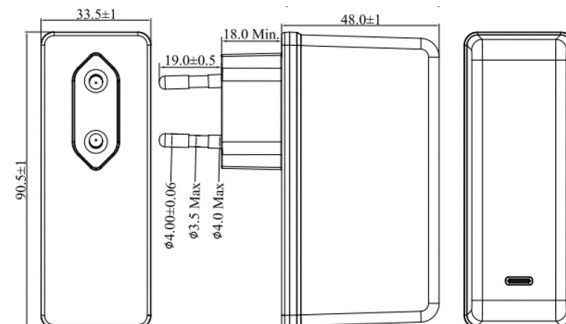
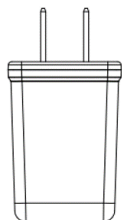


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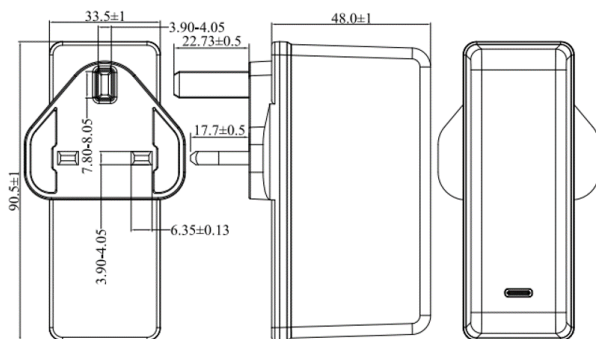
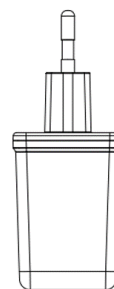
DC Cord: N/A

SLE33SPD00C01



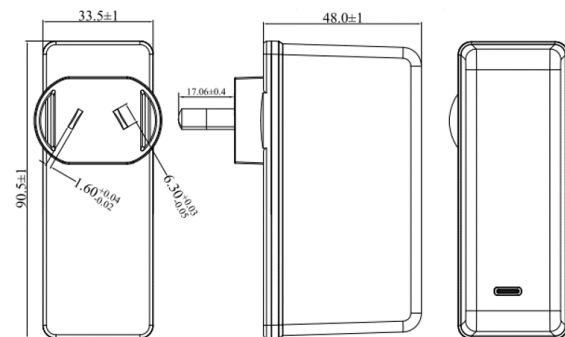
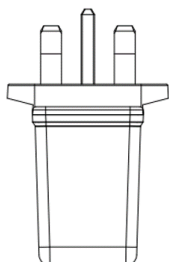
DC Cord: N/A

SLE33SPD00M01



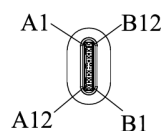
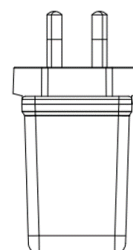
DC Cord: N/A

SLE33SPD00G01



DC Cord: N/A

SLE33SPD00H01

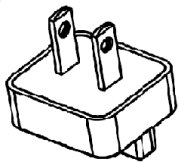


A4,B4,A9,B9	Vbus+
A1,B1,A12,B12	Vbus return
A5	CC1
A7,B7	D-
A6,B6	D+
B5	CC2

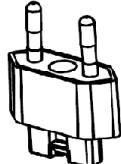
MECHANICAL DRAWINGS

Case Material: PC, Class 94V-0

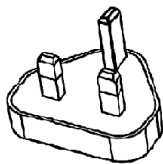
Interchangeable AC Plug Options*:



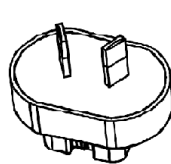
US/Japan
KT1002US



Europe
KT1002EU



UK
KT1002UK



Australia
KT1002AU

*: Blades sold separately, use "KT1002XX" numbers above for ordering.



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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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