



Class II (VI)

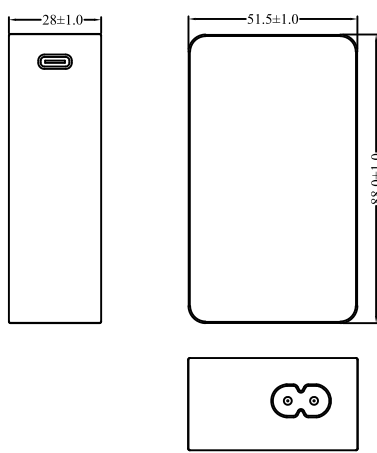
Product Features

- Medical & ITE safety meet
- 2 MOPP input to output isolation
- DOE Efficiency Level VI & CoC V5 Tier2(2016)
- Leakage current $\leq 100\mu\text{A}$
- $\leq 0.15\text{W}$ standby power
- Up to 5,000m operating altitude
- Support online programming
- Meet USB PD3.0 & QC4.0+ fast charge agreement



Models & Ratings

Model Number	Voltage ^(*)	Current	Rated Power	Ripple & Noise (max) ^(*) (2)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES60D1-200300SPC	5.0	0.0-3.0	15W	150mVpk-pk	$\pm 5\%$	Line: $\pm 1\%$ Load: $\pm 5\%$	82.0%	$\leq 3\text{s}$
	9.0	0.0-3.0	27W	150mVpk-pk	$\pm 5\%$		86.8%	$\leq 3\text{s}$
	12.0	0.0-3.0	36W	150mVpk-pk	$\pm 5\%$		87.5%	$\leq 3\text{s}$
	15.0	0.0-3.0	45W	150mVpk-pk	$\pm 5\%$		88.0%	$\leq 3\text{s}$
	20.0	0.0-3.0	60W	150mVpk-pk	$\pm 5\%$		89.0%	$\leq 3\text{s}$

Mechanical Details



Interchangeable AC Plug Options



C8(D1)

DC Connector: USB TYPE-C

Unit: mm

Notes

(*1) Other options are available, please contact our sales representative for details.

(*2) Measured at output connector with 20MHz bandwidth and 0.1uF ceramic in parallel with 10uF electrolytic capacitors.

Input

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	1.3A at 90VAC
Inrush Current	100A max at 240VAC cold start
Touch Leakage Current ^(max)	≤ 100µA at 264VAC

Environmental

Operating Temperature	0°C to 40°C
Storage Temperature	-40°C to 80°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000m

General

Dimensions	88.0(L)x51.5(W)x28.0(H)mm
Weight	175g
MTBF	>100,000hrs MIL-HK8K-217 at 25°C
Isolation	5,656VDC Input to Output

Protection

Overload	105-140% rated output power, auto recovery
Over Voltage	110-130% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

Safety Agency / Mark	Medical(Meet)	ITE(Meet)
CB	-	IEC62368-1
TüV-NRTL	-	UL62368-1
CE	-	EN62368-1

EMC

Emissions	Medical	ITE
Conducted	IEC/EN 60601-1-2, CISPR 11	EN55032, CISPR 32
Radiated	IEC/EN 60601-1-2, CISPR 11	EN55032, CISPR 32
Harmonic Currents	EN61000-3-2, Class A	EN61000-3-2, Class A
Voltage Flicker	EN61000-3-3	EN61000-3-3
Immunity	IEC/EN 60601-1-2	EN55035, CISPR 35
ESD	EN61000-4-2	±15kV air, ±8kV contact
Radiated Immunity	EN61000-4-3	10V/m, 3V/m 80MHz - 2.7GMHz
EFT/Burst	EN61000-4-4	±2kV on AC port, ±1kV on signal ports
Surge	EN61000-4-5	±2KV line to line, ±4KV line to GND
Conducted Immunity	EN61000-4-6	3Vrms, 6Vrms (0.15MHz-80MHz)
Magnetic Field	EN61000-4-8	30 A/m
Dips & Interruptions	EN61000-4-11	0%, 70%, 0% of UT

Others

Dielectric Withstand Voltage	5,656VDC input to output
Insulation Resistance	100M Ohms, 500VDC input to output