UE Electronic

Switching Power Adaptor
Desktop style

Universal 120 Watt - UES120DZ-SPA Series

IP22 Class I & II

Product Features

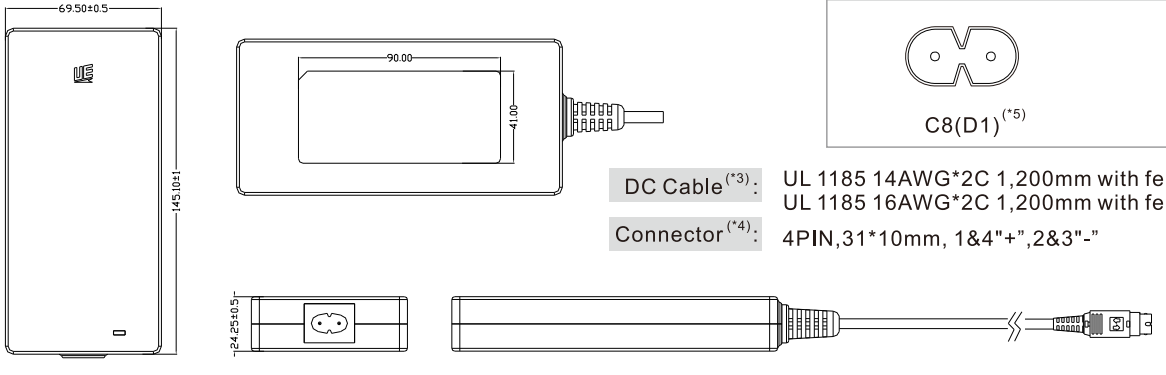
- Medical & ITE safety meet
- 2 MOPP input to output isolation
- DOE Efficiency Level VI & CoC V5 Tier2(2016)
- PF>0.95@230Vac full load
- Leakage current ≤ 100μA
- ≤ 0.15W standby power
- Up to 5,000m operating altitude
- Meet 2KV(DM)/4KV(CM) surge immunity IEC61000-4-5

Models & Ratings

Model Number	Voltage(*1)	Current	Rated Power	Ripple & Noise (max)(*2)	Voltage Tolerance	Line & Load Regulation	Efficiency	Start Up Delay
UES120D"Z"-XXXYYYSPA	11.0-12.0	0.01-10.0	120W	150mVpk-pk	±5%	Line: ±1% Load: ±5%	92.0%	≤3s
	12.1-13.0	0.01-9.23	120W	150mVpk-pk	±5%		92.0%	≤3s
	13.1-14.0	0.01-8.57	120W	150mVpk-pk	±5%		92.0%	≤3s
	14.1-15.0	0.01-8.00	120W	150mVpk-pk	±5%		92.0%	≤3s
	17.1-18.0	0.01-6.66	120W	180mVpk-pk	±5%		93.0%	≤3s
	18.1-19.0	0.01-6.31	120W	180mVpk-pk	±5%		93.0%	≤3s
	19.1-20.0	0.01-6.00	120W	200mVpk-pk	±5%		93.0%	≤3s
	20.1-21.0	0.01-5.71	120W	200mVpk-pk	±5%		93.0%	≤3s
	21.1-22.0	0.01-5.45	120W	200mVpk-pk	±5%		93.0%	≤3s
	22.1-23.0	0.01-5.21	120W	200mVpk-pk	±5%		93.0%	≤3s
	23.1-24.0	0.01-5.00	120W	240mVpk-pk	±5%		93.0%	≤3s
	24.1-25.0	0.01-4.80	120W	240mVpk-pk	±5%		93.0%	≤3s
	25.1-26.0	0.01-4.61	120W	240mVpk-pk	±5%		93.0%	≤3s
	26.1-27.0	0.01-4.44	120W	240mVpk-pk	±5%		93.0%	≤3s
	35.1-36.0	0.01-3.33	120W	300mVpk-pk	±5%		94.0%	≤3s
	36.1-37.0	0.01-3.24	120W	300mVpk-pk	±5%		94.0%	≤3s
	37.1-38.0	0.01-3.15	120W	300mVpk-pk	±5%		94.0%	≤3s
	38.1-39.0	0.01-3.07	120W	300mVpk-pk	±5%		94.0%	≤3s
	39.1-40.0	0.01-3.00	120W	300mVpk-pk	±5%		94.0%	≤3s
	47.1-48.0	0.01-2.50	120W	400mVpk-pk	±5%		94.0%	≤3s
	48.1-49.0	0.01-2.44	120W	400mVpk-pk	±5%		94.0%	≤3s
	49.1-50.0	0.01-2.40	120W	400mVpk-pk	±5%		94.0%	≤3s
	50.1-51.0	0.01-2.35	120W	400mVpk-pk	±5%		94.0%	≤3s
	51.1-52.0	0.01-2.30	120W	400mVpk-pk	±5%		94.0%	≤3s
	52.1-53.0	0.01-2.26	120W	400mVpk-pk	±5%		94.0%	≤3s
	53.1-54.0	0.01-2.22	120W	400mVpk-pk	±5%		94.0%	≤3s

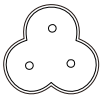
Model encoding: replace "Z" with "1" for C8 (Class II), "2" for C6 (Class I)AC inlets

Mechanical Details



Interchangeable AC Plug Options

C8(D1)(*5)



C6(D2)

DC Cable(*3): UL 1185 14AWG*2C 1,200mm with ferrite for 11- 20V
UL 1185 16AWG*2C 1,200mm with ferrite for 21- 54V

Connector(*4): 4PIN,31*10mm, 1&4"+",2&3"-"

Unit: mm

Notes
(*1, 3, 4) 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.
(*5) Polarized C8 is available.

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Input

Input Voltage Range	80-264VAC
Frequency Range	47-63Hz
Input Current	2.0A at 80VAC
Inrush Current	120A max at 240VAC cold start
Touch Leakage Current (max)	≤ 100μA at 264VAC

Environmental

Operating Temperature	-10℃ to 40℃
Storage Temperature	-20℃ to 60℃
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000m

General

Dimensions	145.1(L)x69.5(W)x24.25(H)mm
Weight	450g
MTBF	>100,000hrs MIL-HKBK-217 at 25℃
Isolation	5,656VDC Input to Output

Protection

Overload	120-170% rated output power, auto recovery
Over Voltage	120-150% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

Safety Agency / Mark	Medical(Meet)	ITE(Meet)
CB	IEC60601-1 / IEC60601-1-11	IEC62368-1
UL	ANSI/AAMI ES60601-1 / 60601-1-11 CAN/CSA-C22.2 NO. 60601-1	UL62368
TüV SUD/Mark	EN60601-1 / EN60601-1-11	-
TüV SUD/GS	-	EN62368-1
CE	-	EN62368
CCC	-	GB4943.1
PSE	-	J62368
KC	-	K60950-1
BSMI	-	CNS14436

EMC

Emissons	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 (diff mode)
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	10M Ohms, 500VDC input to output