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DPUE120-SPAZ SERIES

Universal 120 Watt



Key Product Features

Medical & ITE safety approvals .

Product Specification

Switching Power Adaptor Desktop

Style

- 2 MOOP input to output isolation
- Suitable for medical equipment up to class BF
- Leakage current ≤250µA
- ≤ 0.5W standby power 12V to 48V outputs, up to 120W
- Up to 2,000m operating altitude
- 3 types of AC inlet .



IP20 Class I & II 🕖

Model Options

Model	Voltage	Current	Power	Ripple & Noise	Voltage	Line & Load	Efficiency	Start Up Delay
DPUE120-120YYYSPA1/SPA2/SPA3	12.0V	0.01~8.33A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-135YYYSPA1/SPA2/SPA3	13.5V	0.01~7.40A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-138YYYSPA1/SPA2/SPA3	13.8V	0.01~7.25A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-150YYYSPA1/SPA2/SPA3	15.0V	0.01~6.66A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-160YYYSPA1/SPA2/SPA3	16.0V	0.01~6.25A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-170YYYSPA1/SPA2/SPA3	17.0V	0.01~5.88A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-180YYYSPA1/SPA2/SPA3	18.0V	0.01~5.55A	100W	200mVpk-pk	±5%]	87.00%	≤3s
DPUE120-190YYYSPA1/SPA2/SPA3	19.0V	0.01~5.26A	100W	200mVpk-pk	±5%		87.00%	≤3s
DPUE120-200YYYSPA1/SPA2/SPA3	20.0V	0.01~5.00A	100W	200mVpk-pk	±5%]	87.00%	≤3s
DPUE120-220YYYSPA1/SPA2/SPA3	22.0V	0.01~4.54A	100W	200mVpk-pk	±5%	Line: ±1% Load: ±5%	87.00%	≤3s
DPUE120-240YYYSPA1/SPA2/SPA3	24.0V	0.01~5.00A	100W	300mVpk-pk	±5%	10000. ±070	87.00%	≤3s
DPUE120-260YYYSPA1/SPA2/SPA3	26.0V	0.01~4.62A	100W	300mVpk-pk	±5%		87.00%	≤3s
DPUE120-280YYYSPA1/SPA2/SPA3	28.0V	0.01~4.28A	100W	300mVpk-pk	±5%		87.00%	≤3s
DPUE120-295YYYSPA1/SPA2/SPA3	29.5V	0.01~4.06A	100W	300mVpk-pk	±5%		87.00%	≤3s
DPUE120-300YYYSPA1/SPA2/SPA3	30.0V	0.01~4.00A	100W	300mVpk-pk	±5%]	87.00%	≤3s
DPUE120-330YYYSPA1/SPA2/SPA3	33.0V	0.01~3.63A	100W	300mVpk-pk	±5%]	87.00%	≤3s
DPUE120-360YYYSPA1/SPA2/SPA3	36.0V	0.01~3.33A	100W	300mVpk-pk	±5%		87.00%	≤3s
DPUE120-480YYYSPA1/SPA2/SPA3	48.0V	0.01~2.50A	100W	300mVpk-pk	±5%	1	87.00%	≤3s

Output Current: 010: 0.1A A01:10.01A 999: 9.99A B02: 11.02A

DPUE120-XXX YYY SPAX

AC Inlet Options:

1: C8 2: C6 3: C14



Product Specification	
Input	
Input Voltage	90 to 246 VAC
Frequency	47 to 63Hz
Input Current	2.0A at 90VAC
Inrush Current	40Amax at 115VAC cold start
Touch Leakage Current (max)	Class I ≤250µA & Class II ≤250µA at 264VAC

Environment	
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 80°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	2,000m
MTBF	>100,000hrs MIL-HDBK-217 at 25 degrees C

Protection	
Overload	120-280% rated output power, auto recovery
Over Voltage	120-200% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals		
Safety Agency / Mark	Medical	ITE
СВ	IEC60601-1	IEC60950-1
UL	ANSI/AAMI ES60601-1 / CAN/CSA C.22.2 NO. 60601-1	
TUV	EN60601-1	EN60950-1
CCC		GB4943.1 (For Class I only)

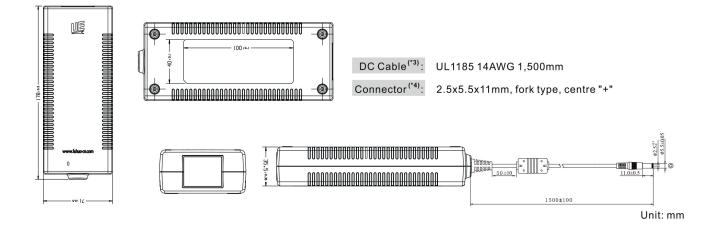
Others	
Dielectric Withstand Voltage	2,121VDC for Class I / 5,656VDC for Class II input to output
Insulation Resistance	10M Ohms, 500VDC input to output



EMC		
Emissions	Medical	ITE
Conducted	IEC/EN 60601-1-2, CISPR 11	EN55022, CISPR 22
Radiated	IEC/EN 60601-1-2, CISPR 11	EN55022, CISPR 22
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	EN55024, CISPR 24
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	±1kV line to line (diff mode)
Conducted Immunity	EN61000-4-6	3Vrms, 6Vrms (0.15MHz-80MHz)
Magnetic Field	EN61000-4-8	30A/m
Dips & Interruptions	EN61000-4-11	0%, 70%, 0% of UT

Mechanical Specifications	
Dimensions	172.5(L)x71(W)x35.5(H)mm
Weight	600g
Isolation	4,000VAC Input to Output / 1,500VAC Input to Ground (Class I version only)

Outline Drawing





AC Inlet Options



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 avaible

(^) Power supplies are not medical equipment (applied parts), medical product manufacturers shall take responsability for further evaluation of class B/BF/CF compliance of their end product.



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T: (877) 634-0982 | F: (510) 657-6634 sales@digipwr.com Digital Power Corporation designs and manufactures flexible power supply solutions for the most demanding applications in the defense, healthcare, telecom, and industrial markets. With headquarters in Fremont, California, Digital Power is publically traded on the NYSE (symbol: DPW). The company was founded in 1969 incorporated in California.

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