

(877) 634-0982 www.digipwr.com

Product Specification

Switching Power Adaptor Desktop

Key Product Features

- Medical & ITE safety approvals
- 2 MOPP input to output isolation
- Suitable for medical equipment up to class BF
- $Leakage\ current \leq 100 \mu A\ {}_{(class\ II)}$
- ≤ 0.3 standby power
- 9V to 24V outputs, up to 48W
- Up to 3,048m operating altitude
- 3 types of AC inlet



DPUE48-SPAZ SERIES

Universal 48 Watt







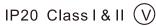














| | V-lt | Current | Power | Dissels % Naiss | Voltage Tolerant | Line & Load | Efficiency | Start Up Delay |
|------------------------------|------------|------------|-------|-----------------|------------------|-------------|------------|----------------|
| Model | Voltage | Current | Power | Ripple & Noise | voitage foierant | Regulation | Efficiency | Start Op Delay |
| | 9.0~12.0V | 0.01~4.02A | 48W | 200mVpk-pk | ±5% | | 88.62% | ≤3s |
| | 12.1~13.0V | 0.01~3.70A | 48W | 200mVpk-pk | ±5% | | 88.61% | ≤3s |
| | 13.1~14.0V | 0.01~3.43A | 48W | 200mVpk-pk | ±5% | | 88.60% | ≤3s |
| | 14.1~15.0V | 0.01~3.20A | 48W | 200mVpk-pk | ±5% | | 88.59% | ≤3s |
| | 15.1~16.0V | 0.01~3.00A | 48W | 200mVpk-pk | ±5% | | 88.59% | ≤3s |
| DPUE48-XXXYYY SPA1/SPA2/SPA3 | 16.1~17.0V | 0.01~2.83A | 48W | 200mVpk-pk | ±5% | Line: ±1% | 88.61% | ≤3s |
| | 17.1~18.0V | 0.01~2.67A | 48W | 200mVpk-pk | ±5% | Load: ±5% | 88.60% | ≤3s |
| | 18.1~19.0V | 0.01~2.53A | 48W | 200mVpk-pk | ±5% | | 88.60% | ≤3s |
| | 19.1~20.0V | 0.01~2.40A | 48W | 200mVpk-pk | ±5% | | 88.59% | ≤3s |
| | 20.1~21.0V | 0.01~2.29A | 48W | 200mVpk-pk | ±5% | | 88.61% | ≤3s |
| | 21.1~22.0V | 0.01~2.19A | 48W | 200mVpk-pk | ±5% | | 88.62% | ≤3s |
| | 22.1~23.0V | 0.01~2.09A | 48W | 200mVpk-pk | ±5% | | 88.60% | ≤3s |
| | 23.1~24.0V | 0.01~2.01A | 48W | 200mVpk-pk | ±5% | | 88.62% | ≤3s |

DPUE48-XXX YYY SPAX

Output Voltage: AC Inlet Options: 200: 20.0 V Output Current: 050: 5.0 V 1: C8 350: 35.0 V 010: 0.1A A01: 10.01A 010: 10.0V 2: C6 999: 9.99A B02: 11.02A (And so forth) 012: 12.0 V 480: 48.0 V 3: C14



| Product Specifications | |
|-----------------------------|--|
| Input | |
| Input Voltage | 90 to 246 VAC |
| Frequency | 47 to 63Hz |
| Input Current | 1.1A at 90VAC |
| Inrush Current | 50max at 240VAC cold start |
| Touch Leakage Current (max) | Class I ≤ 250μA & Class II ≤ 100μA at 264VAC |

| Environment | |
|-----------------------|--|
| Operating Temperature | 0 to 40°C |
| Storage Temperature | -20 to 60°C |
| Operating Humidity | 10% to 90% RH, non-condensing |
| Storage Humidity | 5% to 90% RH |
| Operating Altitude | 3,048m |
| 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 C22.2 NO. 60601-1 | |
| TUV | EN60601-1 | EN60950-1 |
| CCC | | GB4943.1 (For Class I only) |
| PSE | | J60950-1 (For UE48-120300SPA I only) |

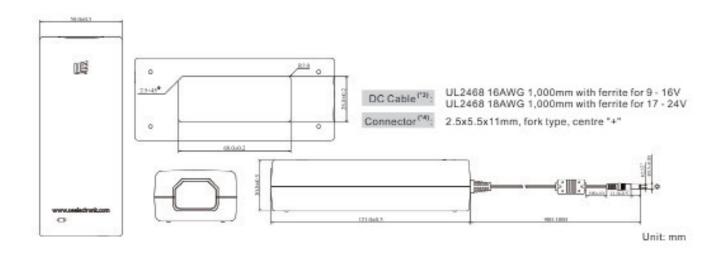
| Others | |
|------------------------------|--|
| Dielectric Withstand Voltage | 2,121VDC for Class I / 5,656VDC for Class II input to output |
| Insulation Resistance | 10M Ohms, 500VDC input to output |



| EMC | | |
|----------------------|----------------------------|---------------------------------------|
| Emissons | 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 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 Specification | | |
|--------------------------|--|--|
| Dimensions | 212(L)x50(W)x30,8(H)mm | |
| Weight | 260g | |
| Isolation | 4,000VAC Input to Output / 1,500VAC Input to Ground (Class I version only) | |

Outline Drawing





AC Inlet Options



C8 (SPA1) (*5)



C6 (SPA2)



C14 (SPA3)

NOTES

- (*1,3,4) Other options are avaible, please contact our sales representative for details.
- $(*2) \ Measured \ at \ output \ connector \ with \ 20 Mhz \ bandwidth \ and \ 0.1 uF \ ceramic \ in \ parallel \ with \ 10 uF \ electrolytic \ capacitors.$
- (*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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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.