

Ultra Low Noise Dual output AC/DC Switching Power Supply

HFD30

HFD30 is a Ultra Low Noise Dual Output AC/DC Switching Power Supply Product can supply up to 30W. It features built-in proprietary based technology to reduce noise enough level for noise-sensitive systems. Very Low leakage current feature can also minimize your external filter circuit design work and space.



Specification

This is an ideal solution who needs very low noise, small, light weight and high efficiency power supply for your next challenging designs.

Features

- Ultra Low Ripple & Noise 2mV to 3mVp-p
- Low Leakage Current 40uA to 100uA
- Universal Input
- Approved Safety Standards
- Meet EMC Safety Standards
- RoHS Free, Vinyl Chloride Free, Halogen Free (PCB)

Model No.

- HFD30 XX*
- * Specify output voltage option : 12V or 15V

Model Number HFD30-12 HFD30-15 Input Input Voltage Range Rating 100-240Vac Single Phase * Range : 85Vac to 264Vac Frequency Range Rating : 50/60Hz, * Range : 47Hz to 63Hz Input Current 100VAC / 200VAC * 1 0.9A / 0.45A at Full Load 76% / 78% 76% / 78% Efficiency 100VAC / 200VAC * 1 Inrush Current 100VAC / 200VAC * 1 20A / 40A * When it operates under cold start Leakage Current 40uA (100Vac, 60Hz) / 100uA (240Vac, 60Hz) Output DC Output Voltage +12V +15V -15V -12\ Output Current 2.2A 0.3A 1.5A 0.5A Maximum Output Power 30W Line Regulation 48mV max 60mV max 60mV max 60mV max Load Regulation 100mV max 150mV max 120mV max 150mV max Ripple Noise * 2 3mVp-p 2mVp-p 2mVp-p 3mVp-p OCP * 3 Other Feature Short Circuit on output terminal (Shut down output) OVP * 3 > 115% (Shut down output) Remote Sensing None Remote Control Available LED lighting Operation Indicator Mechanica Cooling System Convection 84 x 30 x 161.5 mm (Without terminal stand) Size Weight 460a Input & Output Terminal / Signal Terminal Screw termina IEC61000-4-2, -3, -4, -5, -6, -8, -11 Others Noise Immunity EMI Noise EN55022-B, FCC-B, VCCI-B Environmental Condition Operating Temperature / Humidity - 10 degree C to + 60 degree C * With output / 30%RH to 90% RH * Non Condensing - 20 degree C to + 85 degree C / 10%RH to 95% RH * Non Condensing Storage Temperature / Humidity Vibration Resistance 19.6m/s ² 10 to 55Hz 1minute Period 1hour for each X, Y, Z direction < 196.1m/s² 11ms 1 time for each X, Y, Z direction Shock Resistance Isolation Isolation Voltage Input— Output : AC3KV for 1min Cut off current 20mA * Under normal temp & humidity condition Input— FG : AC2KV for 1min Cut off current 20mA * Under normal temp & humidity condition Output—FG : AC500V for 1min Cut off current 20mA * Under normal temp & humidity condition Input— Output , Input—FG, Output—FG DC500V >100M ohm Isolation Resistance

*1 Conditions: Ta = 25 degree C *2 JEITA specified measuring method *3 Upon ever outlage or over current conditions, input power must be removed to allow unit reset to occur within a few minutes.

Note: Derating is required by operating temperature. Follow the overload and specification in manual to avoid the damage of power supply

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Switching Power Supply



Mechanical Drawings



· Warning: Large capacitive load should be applied or removed only with NO AC power applied. Large inrush current may result in damage.

· Incorrect operation will damage Power Supply.



Block Diagram

· Specifications subject to change without notice



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