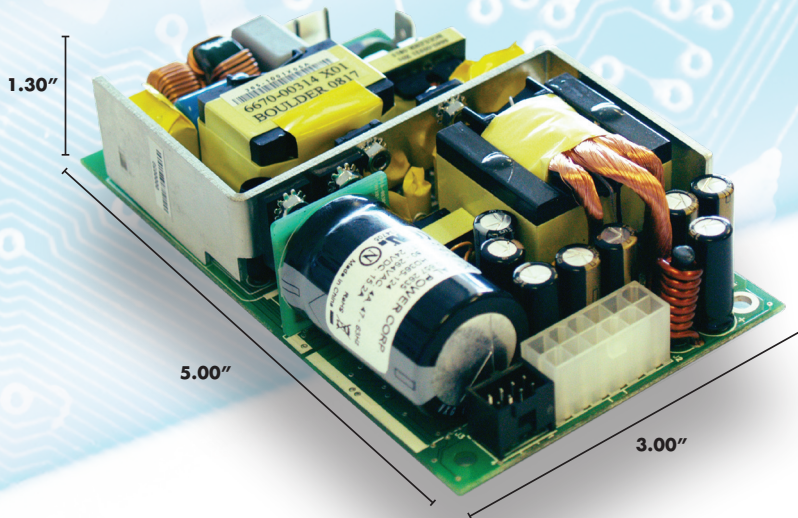


HD365 Series

365 Watt High Density Power Supply



PRODUCT DESCRIPTION

The HD365 Series of switching power supplies utilizes advanced component and circuit technologies to deliver the industry's smallest 365 Watt switcher. The series has been designed for Medical, Telecom and Industrial Applications to satisfy 1U height considerations, the package measures only 3.00 x 5.00 x 1.30". All models offer universal AC input with active power factor correction (PFC), flexible output configurations and compliance to worldwide safety and EMC standards. Features include:

- 365W compact high-density models
- The most power in the industry standard 3 x 5" Footprint
- Universal AC input with PFC
- Low Profile / 1U Package
- Convection cooled operation up to 220 Watts
- 12V / 1A Auxillary Output to power Fan
- RoHS compliant
- High efficiency operation of 90% (Typical)

INPUT

AC Input Voltage	90-264VAC (47-63Hz) or 170-370 VDC
Input Current	4A Max Continuous
Input Reflected Ripple	FCC 68 part 15 Class B
Power Factor Correction	0.98 at 220VAC (typical)
Input Line Protection	6.3A 250VAC IEC Type
Hold-up Time	>16msec @ Full Load
Efficiency	90% Typical
Leakage	275uA @ 230 VAC (max)

OUTPUT

Line Regulation	$\pm 0.1\%$ for V_{in} (min.) to V_{in} (max.)
Load Regulation	$V_1 = \pm 1\%$ / $V_2 = \pm 5\%$ Max
Adjustment Range	$\pm 5\%$ Minimum
Min. Load Requirement	None
Ripple	$\pm 1\%$ (20MHz)
Transient Response	Better than 5% For 50% Step Load
Over-Voltage Protection	115-150% (Latched Shut-down)
Turn-On Delay	1 Sec. Max.
Initial Setting Accuracy	$\pm 1\%$
Over-Current	110-130% of I-Max (Auto-Recovery)

STATUS / CONTROL

Remote Sense	Compensates for <250mV Drop
PS Enable	PS is off until Enable Signal (TTL or Ground) is applied
DC OK	Signal Goes TTL High to indicate DC Regulation
5V Standby	2.0A current, always on when AC input is present
12V Auxiliary	1.0A current to power cooling fan(s)

ELECTROMAGNETIC COMPATIBILITY

Electrostatic Discharge	EN61000-4-2, ± 4 KV Contact / ± 8 KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ± 2 KV
Surges	EN61000-4-5, ± 2 KV Line-Earth, ± 1 KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Fluctuations & Flicker	EN61000-3-3

ENVIRONMENTAL

Operation Temperature	-20 ~ +50C Derate of 2.5%/C up to +70C
Storage Temperature	-20C ~ +85C
Cooling	Forced Air Cooling 200LFM 220W Max Convection
Humidity	Up to 95% RH Non-condensing
Shock & Vibration	0.75G Peak Half Sine, 6 Axes
MTBF	>300,000 Hours

SAFETY & EMISSIONS

Safety Approvals (pending)	CSA/UL 22.2 No. 60950-1-M90 & 60601-1-M90 VDE EN60950-1 / EN60601-1 CE Mark (LVD)
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Model Selection Guide

Model	Output	Standby Voltage	Fan Voltage	Note:
HD365-112	12V @ 30.4A	5VSB @ 2.00A	12V @ 1.00A	Total Power Not to exceed 365 Watts
HD365-124	24V @ 15.2A	5VSB @ 2.00A	12V @ 1.00A	Total Power Not to exceed 365 Watts
HD365-148	48V @ 7.6A	5VSB @ 2.00A	12V @ 1.00A	Total Power Not to exceed 365 Watts

Contact factory for other voltage configurations.

