

Model	DC48V5A-DIN
Group of Output	1
DC Voltage	DC48V
Default Output Voltage	48.00-48.2V (VIN: 220VAC / LOAD: 0A)
Output Rated Current	5A
Output Current Range	0-5A
Output Rated Power	240W
Total Peak Output Power	Up to 360W (Sustainable time 10S/220VAC)
Peak Output Current	7.5 ^a (Sustainable time 10S/220VAC)
Ripple Noise	Peak - Peak $\leq 100\text{mV}$ (Test Method: The terminal shall be in parallel with capacitance of 0.1 μF and 47 μF , testing at 20MHz)
Output Regulation Range	47~56V
Stabilized Voltage Precision	$\pm 1\%$ (@ 90V-264Vac input, 100% load)
Line Regulation	$\pm 0.5\%$ (@ 90-264Vac input, 100% load)
Load Regulation	$\pm 1\%$ (@ 90-264Vac input, 0-100% load)
Output Start Time	< 2S @ nominal input (100% load)
Output Hold Time	> 20ms @ 115Vac, > 115 ms @ 230Vac (100% load)

Voltage Overshoot	≤5%
Input Voltage Range	90~264VAC
Input Rated Voltage Range	100~240VAC
Frequency Range	47~63Hz
Rated Frequency	50/60Hz
Starting Voltage	90VAC
Efficiency	> 90.0% @ 115VAC, > 91.0% @ 230VAC
Input Current @25°C	< 4.40A @ 115VAC, < 2.20A @ 230VAC
Inrush Starting Current @25°C	< 35A @ 115VAC& 230VAC
Power Factor	> 0.99 @ 115VAC, > 0.93 @ 230VAC
Over Power Protection	288~360W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
Over Voltage Protection	57~70V Swing machine (Short circuit the Pin1-2 of U8, swing machine. Output recovery to normal after removing the short circuit) Note: Do not use external voltage.
Over Current Protection	6~7.5A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)
Short Circuit Protection	It achieves the long-term short circuit by connecting a sufficient cross-sectional area copper cable (Length at 15cm±5cm) with power output port. Self-recovery to normal after removing the short circuit.
Operation Temperature and Humidity	-40~70°C; 20%~95%RH
Storage Temperature and Humidity	-40°C~85°C; 10%~95%RH non-condensing

Temperature Coefficient	±0.03%/°C (0~50°C)
Vibration	Frequency range: 10 ~ 500Hz, Acceleration: 2G, Each sweep cycle 10min. Six sweeps along the X, Y, and Z axis
Surge	Acceleration: 20G, Duration time: 11mS, Three shocks along X, Y and Z axis
Altitude	2000m
Security Standard	GB4943/EN60950 <input checked="" type="checkbox"/> Reference <input type="checkbox"/> Certification
Dielectric Strength	Input—Output:3KVac/10mA; Input--Case:1.5KVac/10mA; Output---Case:0.5KVDC/10mA Time for each testing is 1min.
Grounding Test	Test Condition: 32A/2min; Ground bond: <0.1 ohms.
Leakage Current @25°C	Input to GND ≤3.5mA; Input to output ≤0.25mA (Input 264Vac, 63Hz)
Insulation Resistance	Input—Output: 10M ohms
Conducted Interference	EN55022, EN55024, FCC PART 15 CLASS B
Radiated Interference	EN55022, EN55024, FCC PART 15 CLASS B
Harmonic current	EN61000-3-2 CLASS D
Conducted Emission	EN61000-4-6 Level3
Radiated Emission	EN61000-4-3 Level3 criterion B
Power Frequency Emission	EN61000-4-8 Level3
Electrostatic Emission	EN61000-4-2 Level4 criterion B

EFT	EN61000-4-4 Level4 criterion B
Surge	EN61000-4-5 Level4 criterion B
Dip and Interruption	EN61000-4-11