



Universal single phase switching power supply

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DPS1-240W-D24-01Z(H)

Features

- Wide Input Voltage Range: 100-260VAC/120-370VDC
- Operating temperature range: -30°C+ 70°C
- Efficiency up to 94%
- DC OK function,
- Active PFC 150%
- Peak power sustainable 1s output
- Output short-circuit, over-current, overpressure, overtemperature protection,
- Can be installed on TS-35/7.5/15

Specification

Product Name	DPS1-240W-D24-01Z(H)
Input Parameter	
Input voltage range	Single Phase, 100... 240 VAC/120... 370 VDC
Input frequency range	47...63Hz
Input Current	3A (115Vac) / 1.5A (230Vac)
Power consumption	<4W
Connection Mode	PCB universal screw terminal blocks
Output Parameter	
Output efficiency	94% (230Vac@24V/5A, 25°C)
Output rated voltage	24VDC ±1%
Range of output voltage	23.5VDC...28VDC
Output rated current	10A
Rated power	240W
Voltage Ripple (20MHz)	< 120mVp-p
Load variation and current slope	10%~100%, 0.05A/μs
Rise time	≤3000ms
Capacitive load	40000μF
Power factor	0.98 (115Vac) / 0.94 (230Vac)
Startup delay time	≤3000ms
Dynamic recovery time	≤1ms
Linear rate of adjustment	±0.5%
Load regulation	±1%
Impulse current	15A (115Vac) / 30A (230Vac)
Leakage current	<0.5mA (240Vac)
Coefficient of temperature drift	±0.03% / °C
Power-down hold time	20ms
Switching frequency	100KHZ
Connection Mode	PCB universal screw terminal blocks



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Mechanical Parameter

Size (L x W x D)	110 x 41 x 124 mm
Weight	0.65 kg
Shell material	110 x 41 x 124 mm
DC light	YES

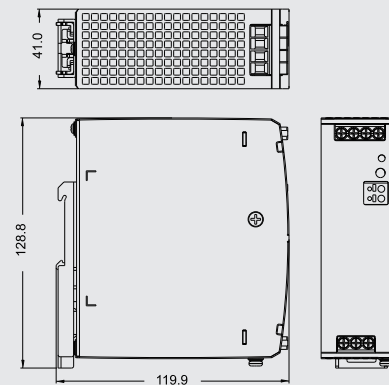
Environmental Parameter

Working temperature	-40°C to + 70°C
Storage temperature	-40°C to + 85°C
Storage humidity	10...95%
Working Humidity	20...90%
Impact test	IEC 60068-2-27(bearing 30G)
Vibration test	10~500hz, 5g, 10 minutes / cycle
Pollution level	2
Operational altitude	5000m

Security Parameter

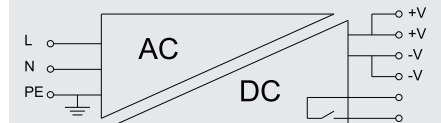
Overcurrent protection range	105%... 150%, which can be recovered automatically after the abnormal load conditions are removed
Overvoltage protection	≤ 33V (output voltage off, input restart recovery)
Overheat protection	The output voltage is turned off, the abnormal over temperature is removed and the output can be restored after the power is restarted
Short circuit protection	Can be short-circuited for long periods of time, self-recovery
Safety Standard	IS13252(Part1) & EN62368-1
Security level	CLASS I
Mean Time between failures	> 300,000 hours

Dimensional Drawing



DPS1-240W-D24-01Z(H)

Wiring Diagram



DPS1-240W-D24-01Z(H)