



DPS1-120W-D24-01A(H)

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

DPS1-480W-D24-01A(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, over-temperature protection,
- Can be installed on TS-35/7.5/15

Specification

Output rated voltage	DPS1-120W-D24-01A(H)	DPS1-240W-D24-01A(H)	DPS1-480W-D24-01A(H)
Input Parameter			
Input voltage range	Single Phase, 100... 240 VAC/100... 370 VDC	Single Phase, 100... 240 VAC/120... 370 VDC	Single Phase, 85... 264 VAC/120... 370 VDC
Input frequency range	47...63Hz		
Input Current	1.5A (115Vac) 0.75A (230Vac)	3A (115Vac) 1.5A (230Vac)	5A (115Vac) 2.5A (230Vac)
Power consumption	<2W	<4W	<8W
Connection Mode	PCB universal screw terminal blocks		
Output Parameter			
Output efficiency	94% (230Vac@24V/5A, 25°C)	94% (230Vac@24V/5A, 25°C)	94% (230Vac@24V/5A, 25°C)
Output rated voltage	24VDC ±1%	24VDC ±1%	24VDC ±1%
Range of output voltage	23.5VDC...28VDC	23.5VDC...28VDC	23.5VDC...28VDC
Output rated current	5A	10A	20A
Rated power	120W	240W	480W
Voltage Ripple (20MHz)	< 100mVp-p	< 120mVp-p	< 100mVp-p
Load variation and current slope	10%~100%, 0.05A/μs	10%~100%, 0.05A/μs	10%~100%, 0.05A/μs
Rise time	≤1000ms	≤3000ms	≤3000ms
Capacitive load	50000μF	40000μF	2700μF
Power factor	0.98 (115Vac) 0.94 (230Vac)	0.98 (115Vac) 0.94 (230Vac)	0.99 (115Vac) 0.95 (230Vac)
Startup delay time	≤1000ms	≤3000ms	≤3000ms
Dynamic recovery time	≤1ms	≤1ms	≤1ms
Linear rate of adjustment	±0.5%	±0.5%	±0.5%
Load regulation	±1%	±1%	±1%
Impulse current	15A (115Vac) 30A (230Vac)	15A (115Vac) 30A (230Vac)	20A (115Vac) 40A (230Vac)
Leakage current	< 1mA (240Vac)	< 0.5mA (240Vac)	< 0.8mA (240Vac)
Coefficient of temperature drift	±0.03% / °C	±0.03% / °C	±0.03% / °C
Power-down hold time	20ms	20ms	20ms
Switching frequency	100KHZ	100KHZ	100KHZ
Connection Mode	PCB universal screw terminal blocks		

Mechanical Parameter

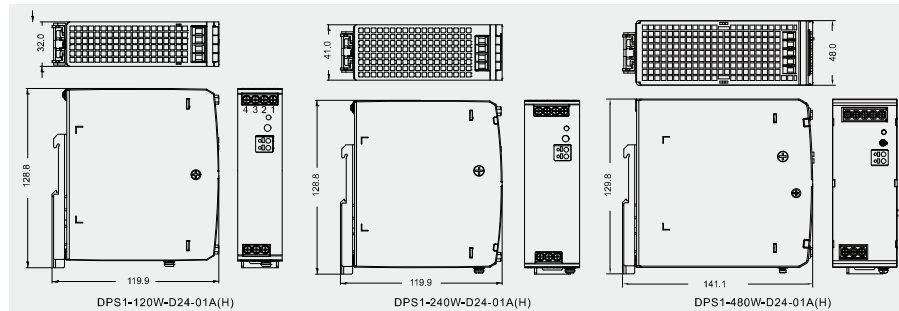
Size (L X W X D)	110 x 32 x 124 mm	110 x 41 x 124 mm	131.5 x 48 x 125 mm
Weight	0.49 kg	0.65 kg	0.98 kg
Shell material	110 x 32 x 124 mm	110 x 41 x 124 mm	131.5 x 48 x 125 mm
DC light	YES		

Environmental Parameter

Working temperature	-40°C to + 70°C	-30°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	2000m

Security Parameter

Overcurrent protection range	105% ... 150% , automatically recovers after the abnormal load condition is removed		
Overvoltage protection	≤ 33V (output voltage off, input restart recovery)		
Overheat protection	Start temperature: 90 °C, release temperature: 60 °C	Start temperature: 80 °C, release temperature: 60 °C	Start temperature: 90 °C, release temperature: 60 °C
Short circuit protection	Can be short-circuited for long periods of time, self-recovery		
Safety Standard	UL61010-1 & UL61010-2-201 & EN62368-1		
Security level	CLASS I		
Mean Time between failures	> 300,000 hours		

Dimensional Drawing

Wiring Diagram
