

DPS1-WI-240W Power Supplies

CE RoHS



Features

- Single or Two Phase Ultra Wide Input Range 180~550VAC
- Built-in Active PFC Circuit
- Built-in DC OK Contact
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Built-in Constant Current Limiting Circuit
- High Efficiency 91% and Lower Power Dissipation
- Three Years Warranty

Specification

Product name	DPS1-WI-240W-D24-02A(H)		DPS1-WI-240W-D48-02A(H)
Input Parameter			
Input voltage range	180 ~ 550VAC 254 ~ 780VDC		
Input frequency range	47...63Hz		
Input current	1A/400Vac 2A/230Vac		
Impulse current	COLD START 50A		
Power consumption	6W		
Connection mode	Terminal blocks		
Output Parameter			
Output efficiency	91%		
Output rated voltage	24V	48V	
Range of output voltage	24~28V	48~55V	
Output rated current	10A	5A	
Rated power	240W		
Voltage ripple (20MHz)	150mVp-p		
Setup , Rise time	800ms, 150ms/400Vac at full load 1500ms, 150ms/230Vac at full load		
Line regulation	±0.5%		
Load regulation	±1.0%		
Leakage current	<3.5mA / 530Vac		
Coefficient of temperature drift	±0.03 %/°C (0~50°C)		
Power-down hold time	18ms/400Vac at full load 18ms/230Vac at full load		
Switching frequency	50Khz~80Khz		
Connection mode	Terminal blocks		

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Product name	DPS1-WI-240W-D24-02A(H)	DPS1-WI-240W-D48-02A(H)
Mechanical Parameter		
Size (L X W X D)	63×113.5×125mm	
Weight	1kg	
Shell material	Metal	
DC light	OK	
DC OK contact	60VDC 0.3A, 30VDC 1A, 30VAC 0.5A resistive load	
Environmental Parameter		
Working temperature	-30 ~ +70 °C (Refer to "Derating Curve")	
Storage temperature	-40°C ~ + 85°C	
Storage humidity	10...95%RH non-condensing	
Working humidity	20 ~ 95% RH non-condensing	
Vibration test	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X,Y,Z axes; Mounting clip: Compliance to IEC60068-2-6.	
Operational altitude	2000m	
Security Parameter		
Overcurrent protection range	105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec., auto-recovery after 1 minute if the fault condition is removed.	
Overvoltage protection	29~33V	56~65V
	Protection type: Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed.	
Overheat protection	90 °C±5°C (TSW) detect on heat sink of power switch.Protection type : Shut down o/p voltage, recovers automatically after temperature goes down.	
Short circuit protection	Self-recovery	
Safety standard	UL61010-1, UL61010-2-201, BS EN/EN62368-1	
Mean Time between failures	900K hrs min. Telcordia SR-332 (Bellcore)	

Dimensional Drawing

