



**SEPITAM**

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**SEPLITAM**  
**DR-120-48**



## TYPE:

# Sepitam-DR-120-48

Industrial Ethernet Switches can be implemented in outdoor projects and challenging environments due to their stable performance in harsh environmental conditions, including a wide range of temperatures, high humidity, and electromagnetic radiation. PoE technology in these products greatly contributes to the easier power supplying of various network devices, and its management and configuration capabilities provide optimal performance.



- ▶ TYPE: Sepitam-DR-120-48
- ▶ Technical Specification of Sepitam-DR-120-48
- ▶ 120W industrial DIN Rail power supply

## ▶ Description:

Sepitam-DR-120-48 is one economical slim 120W industrial DIN Rail power supply series, adapting to be installed on TS-35/7.5 or TS-35/15 mounting rails. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

Sepitam-DR120-48 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 89%, the entire series can operate at the ambient temperature between  $-40^{\circ}\text{C}$ ~ $70^{\circ}\text{C}$  under air convection. It is equipped with constant current mode for over load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus make DR120-48 a very competitive power supply solution for industrial applications.

## ▶ Properties:

- Power Input: AC 90~264V
- Support production for short circuit/over current/over voltage
- Wide operation temperature range:  $-40^{\circ}\text{C}$ ~ $70^{\circ}\text{C}$
- 100% full load aging test
- High efficiency, long life time and high reliability
- Industrial Control System , Semiconductor fabrication equipment ,
- Factory automation , Electro mechanical apparatus



## ► Specifications:

Model	Sepitam-DR-120-48
Output	
Group of Output	1
DC Voltage	48V DC
Default Output Voltage	48.00-48.2V (VIN: 220VAC / LOAD: 0A)
Output Rated Current	2.5A
Output Current Range	0-2.5A
Output Rated Power	120W
Total Peak Output Power	Up to 180W(Sustainable time 10S/220VAC)
Peak Output Current	3.75A( 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 $\mu\text{F}$ and 47 $\mu\text{F}$ , testing at 20MHz)
Stabilized Voltage Precision	$\pm 1\%$ (@ 90-264Vac input, 100% load)
Line Regulation	$\pm 0.5\%$ (@ 90-264Vac input, 100% load)
Load Regulation	$\pm 1\%$ (@ 90-264Vac input, 100% load)
Temperature Coefficient	$\pm 0.03\%/^{\circ}\text{C}$
Output Start Time	< 2S @ nominal input (100% load )
Output Hold Time	> 20ms @ 115VAC, > 50 ms @ 230Vac (100% load )
Voltage Overshoot	$\leq 5\%$



Model	Sepitam-DR-120-48
Input	
Input Voltage Range	90~264VAC
Input Rated Voltage Range	100~240VAC
Frequency Range	47Hz~63Hz
Rated Frequency	50/60Hz
Starting Voltage	90V AC
Efficiency	> 90.0% @ 115Vac, > 91.0% @ 230Vac
Input Current	< 2.20A @ 115Vac; < 1.10A @ 230Vac
Inrush Starting Current	< 35A @ 115Vac & 230Vac
Power Factor	> 0.99 @ 115Vac, > 0.93 @ 230Vac
Protection	
Over power	144~180W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
Over voltage	57~70V V 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	3~3.75A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)
Short circuit	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

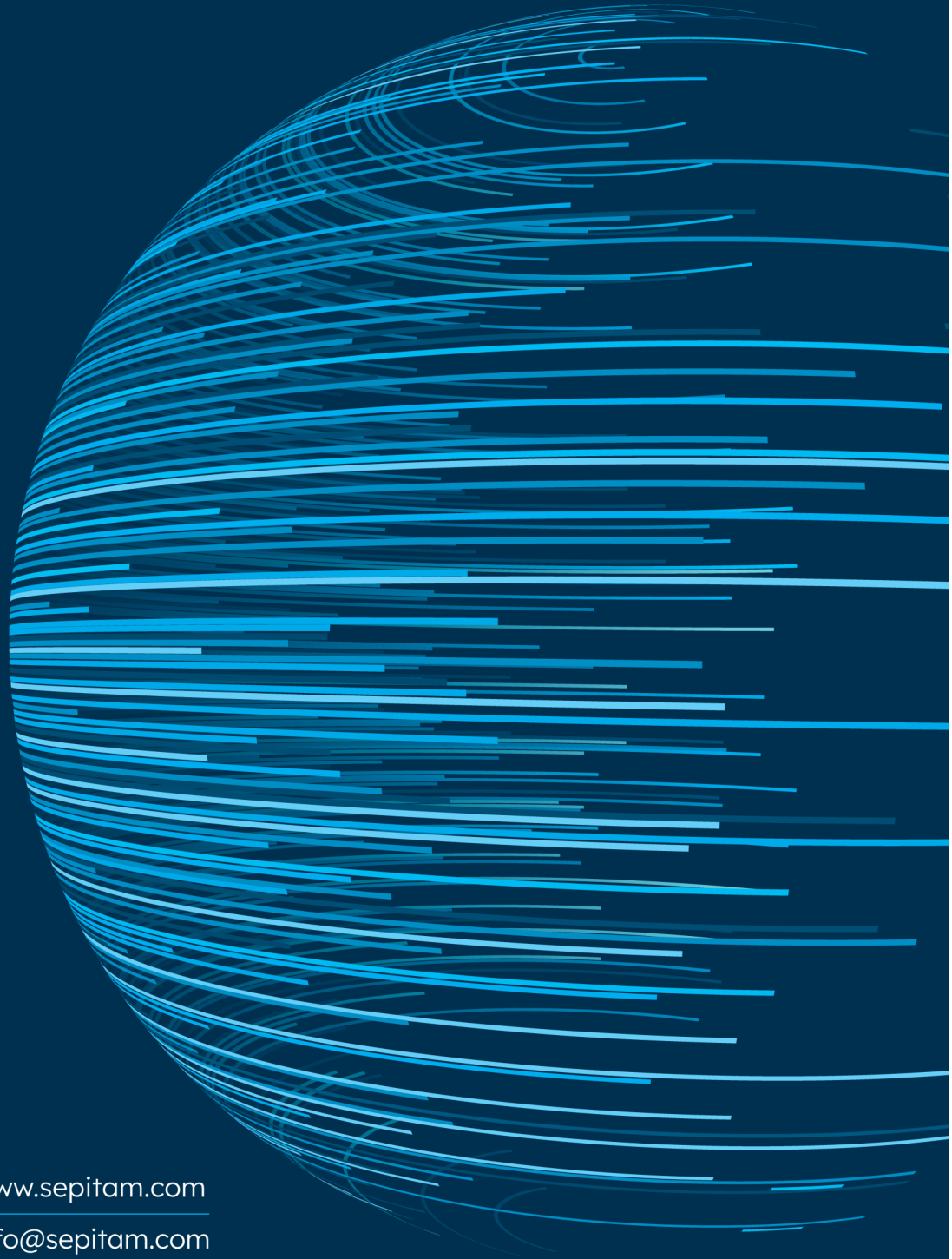


Model	Sepitam-DR-120-48
Operation Environment	
Operation Temperature and Humidity	-30~70°C; 20%~95%RH
Storage Temperature and Humidity	-40°C ~85°C; 10%~95%RH non-condensing
Libration	Frequency range: 10 ~ 500Hz, Acceleration: 2G, Each sweep cycle 10min.
Surge	Acceleration: 20G, Duration time: 11mS,
Altitude	2000m
Safety and EMC Standard @25	
Security Standard	GB4943/EN60950 ■Reference ☐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	Input to GND ≤3.5mA; Input to output ≤0.25mA (Input 264Vac, 63Hz)
Insulation Resistance	Input—Output: 10M ohms;
EMI	Conducted Interference: EN55022, EN55024, FCC PART 15 CLASS B Radiated Interference: EN55022, EN55024, FCC PART 15 CLASS B



Model	Sepitam-DR-120-48
Harmaonic current	EN61000-3-2 CLASS D
EMS	Conducted Emission:EN61000-4-6 Level3 Radiated Emission:EN61000-4-3 Leve3 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:EN61000-4-4 Level4 criterion B Dip and Interruption:EN61000-4-11
Dimension (L*W*H)	135*121*40mm

# Technical Specification of Sepitam-DR-120-48



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