Switching Power Supply Type SPD 120W New DIN rail mounting





Installation on DIN Rail 7.5 or 15mm

- Short circuit protection
- PFC standard High efficiency
- High eπiciency
 Power ready output
- LED indicator for DC power ON
- LED indicator for DC low
- Parallel versions standard
- Compact dimensions
- UL, cUL listed and TUV/CE approved

Product Description

The Switching power supplies SPD series are specially designed to be used in all automation application where the installation is on a DIN rail

and compact dimensions and performance are a must. Then version features PFC and parallel function as standard.

Ordering Key	SP D 24	120	1 B	Ν
Model				
Mounting (D = Din rail)				
Output voltage				
Output power				
Input type				
Optional features				
New Type				

Input type: 1= single phase

Approvals



Optional Features

Description	Code
Standard screw terminal	Nil
Plug-in connectors	В

Output performances

Model	Rated output Voltage (VDC)	Output Power (W)	Output Current (A)		rim Range Max. VDC	star	reshold at	DC LO LI Theresh star Min.	old after	Typical Efficiency
SPD12120	12	120	10	11.4	14.5	10	11.2	10	11.2	84%
SPD24120	24	120	5	22.5	28.5	17.6	19.4	17.6	19.4	86%
SPD48120	48	120	2.5	45.0	55.0	37.0	43.0	37.0	43.0	87%

Output data

Output voltage accuracy	- 0 +1% max (factory adjusted)	Transient recovery time	300µs
Line regulation	± 0.5%	Ripple and noise	50mVpp
Load regulation Non parallel model	± 1%	Hold up Time Vi = 115VAC Hold up time Vi = 230VAC	25ms 30ms
Parallel model	± 5%	Minimum load	0%
Temp. coefficient	± 0.3% / °C	Parallel Operation	3 units max.



Input data

Rated input voltage	115/230 autoselect	Frequency range	47- 63 Hz
Voltage range AC in, 115 AC in, 230 DC in	90 - 132VAC 186 - 264VAC 210 - 370VDC	Inrush current Vi= 115VAC Vi= 230VAC P.F.C.	24A 48A 0.7
Rated input current	2.8 / 1.4A		

Controls and Protections

Input Fuse	T3.15/250VAC internal ¹⁾	Power ready (only SPD 24) Threshold at start up (contact closed) Contact rating at 60VDC	17.6 - 19.4
Overvoltage Protection Output Short Circuit	125 – 145% Current limited		0.3A
Rated Overload Protection	110 - 145%	Insulation	500VDC

¹⁾ Fuse not replaceable by user

General data (@ nominal line, full load, 25°C)

Ambient temperature	-35°C to 71°C
Derating (>60°C to +71°C)	2.5% / °C
Ambient humidity	20 to 95%RH
Storage	-35°C to +85°C
Protection degree	IP20
Cooling	Free air convection

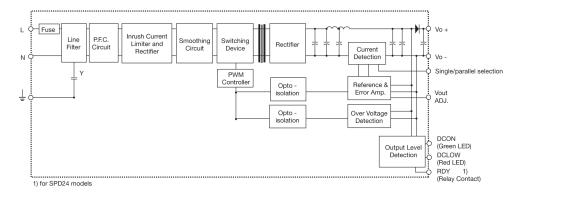
Switching frequency	80kHz
MTBF (MIL-HDBK-217F)	480.000h
Case material	Metal (powder painted aluminium)
Dimensions L x W x D	125 x 63.5 x 126
Weight	920g

Approvals and EMC

Insulation voltage I / O	3.000VAC min	CE	EN50081-1
Insulation resistance	100M Ω min		EN55022 class B EN61000-3-2
UL / cUL	UL508 listed, UL60950-1 Recognized		EN61000-3-2 EN61000-3-3 EN61000-6-2
τυν	EN60950-1		EN61000-6-3 EN55024



Block diagrams



Pin assignement and front controls

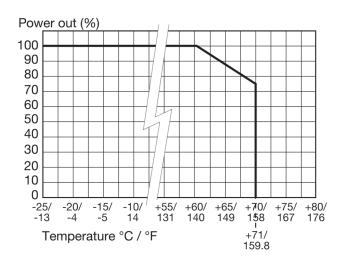
Pin No.	Designation	Description	
1	RDY	DC OK, relay normally open contact	
2	RDY	DC OK, relay normally open contact	
3	+	Positive output terminal	
4	+	Positive output terminal	
5	-	Negative output terminal	
6	-	Ground terminal to minimise High frequency emissions	
7	GND	Negative output terminal	
8	L	hase input (no polarity with DC input)	
9	N	leutral input (no polarity with DC input)	
	DC ON	DC output ready LED	
	DC LO	DC low indicator LED	
	Vout ADJ.	Trimmer for fine output voltage adjustment	
	S/P	Single/parallel selection switch	



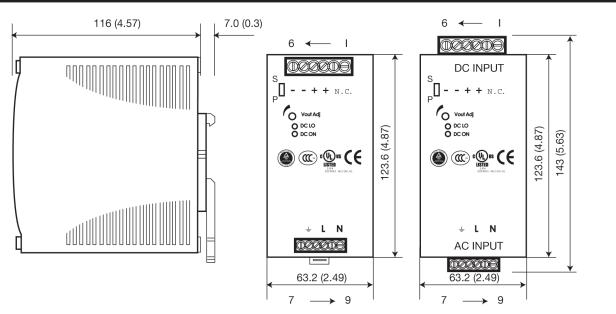
Installation

Ventilation and cooling	Normal convection All sides 25mm free space for cooling is recommended
Screw terminals	10-24AWG flexible or solid cable 8mm stripping recommend
Max. torque for screws terminals	
Input terminals	1.008Nm (9.0lb-in)
Output terminals	0.616Nm (5.5lb-in)
Plug-in connectors	10-24AWG flexible or solid cable 7mm stripping recommend
Max. torque for plug-in terminals	
Input terminals	0.784Nm (7.0lb-in)
Output terminals	0.784Nm (7.0lb-in)

Derating Diagram



Mechanical Drawings mm (inches)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIN Rail Power Supplies category:

Click to view products by Carlo Gavazzi manufacturer:

Other Similar products are found below :

 PS-S6024
 DVP01PU-S
 DVP06AD-S
 DVP06XA-S
 DVPDNET-SL
 DVPDT01-S
 DVPPS01
 PS-6012
 PS9Z-5R1G
 PS-C24024

 DVP08ST11N
 DVPACAB530
 DVPCOPM-SL
 DVPEN01-SL
 DVPPF01-S
 ADNB008-48-1PM-C
 ADNB017-24-1PM-C
 ADNB040-24

 1PM-C
 ADNB050-12-1PM-C
 ADNB040-15-1PM-C
 ADNB034-12-1PM-C
 S8TS-06024-E1
 PS-UPS40
 PSC-6024
 PSD-A60W12
 96PS

 A120WDIN
 PSD-A60W48
 PSD-A40W12
 PSD-A40W24
 SMP21-L20-DC24V-5A
 PSD-A40W48
 S8T-DCBU-02
 PS-S4024
 NTPS-24-1.3

 PST-96024
 S82YVSC4P
 PS-S4005
 PS-10024
 PS-C12024
 PSP-480S24
 PS-C48024
 PSC-4012
 PSC-4015
 PSC-4015

 PSC-9615
 PSC-15124
 PSC-15148
 PSC-24148
 PSC-24148
 PSC-4015
 PSC-4015
 PSC-4015