

Switching Power Supply Type SPD 24 240 DIN Rail mounting

Distributed by
General Safety Company Ltd.
(416) 645-0242

CARLO GAVAZZI



- Universal AC Input Full range
- Installation on DIN Rail 7.5 or 15mm
- Short circuit protection
- PFC as standard
- High efficiency
- Power ready output
- Parallel connection feature
- 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.

Ordering Key

SP D 24 240 1 B

Model _____
 Mounting (D = Din rail) _____
 Output voltage _____
 Output power _____
 Input Type _____
 Optional features _____

Input type: 1= single phase

Approvals



Optional Features

Description	code
Plug-in connectors	B

Output data

Output nominal voltage	24Vdc*	Transient recovery time	300 ms
Current	10A	Ripple and noise	100mVpp
Output voltage range	22.5 to 28.5Vdc	Efficiency typ.	89%
Line regulation	± 0.5%	Output Voltage accuracy	+1% (factory adjusted)
Load regulation		Temperature coefficient	± 0.3%/°C
Non parallel mode	± 1%	Hold up Time Vi = 115Vac	25ms
Parallel mode	± 5%	Hold up time Vi = 230Vac	30ms
DC indicator ON	17.6 – 19.4Vdc	Minimum load	0%
DC indicator LOW	17.6 – 19.4Vdc	Parallel Operation	3 units max.

* 48Vdc available, see specific datasheet



Input data

Rated input voltage	115/230 (autoselect)	Frequency range	47- 63 Hz
Voltage range AC in, 115 selected AC in, 230 selected DC in	93 - 132 Vac 186 - 264 Vac 210 - 370 Vdc	Inrush current $V_i = 115\text{Vac}$ $V_i = 230\text{Vac}$ P.F.C. $V_i = 230\text{Vac}$, I_{nom}.	30A 60A 0.7

Controls and Protections

Input Fuse	T6.3A/250Vac internal*	Power ready Threshold at start up Threshold after start up Contact rating at 60Vdc insulation	21.1-23.1 19.0-20.6 0.3A 500Vdc
Overvoltage Protection	120 - 145%		
Output Short Circuit	Current limit		
Rated Overload Protection	105-145%		

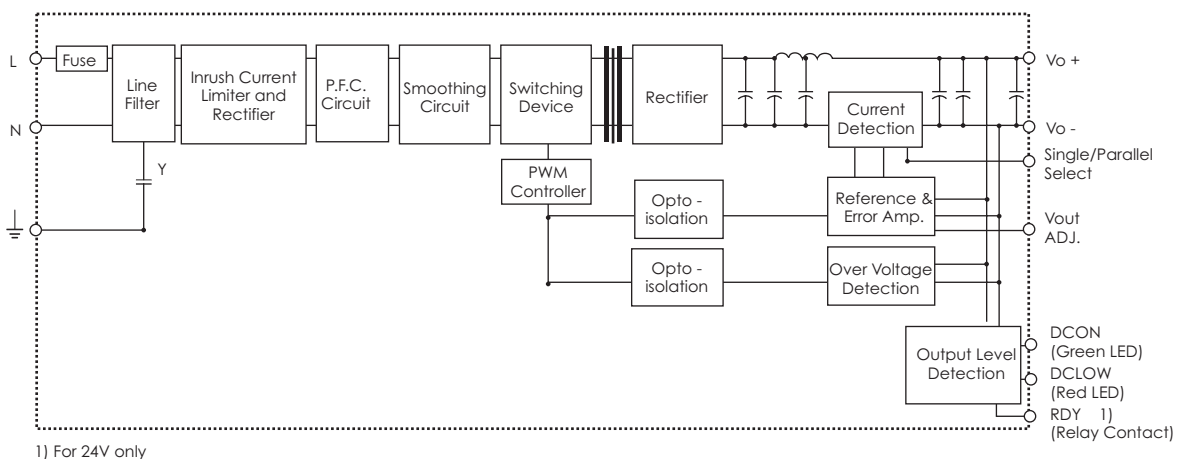
General data (@ nominal line, full load, 25°C)

Ambient temperature	-10°C to 71°C	Cooling	Free air convection
Case temperature V/I nom	+90°C	Switching frequency	40kHz
Derating (>60°C to +71°C)	2.5%/°C	MTBF (MIL-HDBK-217F)	200.000h
Ambient humidity	2 - 95%RH	Case material	Metal
Storage	-25°C to +85°C	Weight	1000g
Dimensions L x W x D Screw terminal type Plug in connectors	125 x 83 x 126 142 x 83 x 126	Protection degree	IP20

Approvals and EMC

Insulation voltage I / O	3.000Vac	CE	EN61000-6-3 EN55022 class B EN61000-3-2 EN61000-3-3 EN50082-1 EN55024
Insulation resistance	100Mohm		
UL / cUL	UL508 listed, UL60950-1, Recognised		
TUV	EN60950		

Block diagrams



* Not replaceable by user.

Pin assignement and front controls

Pin No.	Designation	Description
1	RDY	DC OK, relay normally open contact
2		
3	+	Positive output terminal
4	+	Positive output terminal
5	-	Negative output terminal
6	-	Negative output terminal
7	GND	Ground terminal to minimise High frequency emissions
8	L	Phase input (no polarity with DC input)
9	N	Neutral 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 / COOLING:

- Normal air convection
- 25mm of free space along all sides to allow good cooling

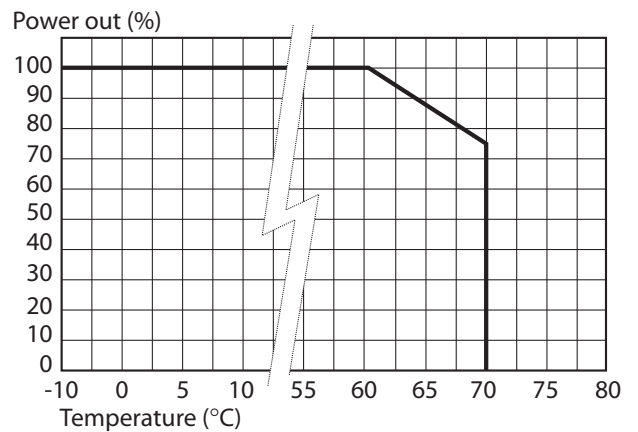
SCREW CONNECTIONS:

- 10-24AWG Flexible or solid cable. 8mm stripping recommended

PLUG IN CONNECTORS:

- 10-24AWG Flexible or solid cable. 7mm stripping recommended

Derating Diagram



Mechanical Drawings

