

Single phase switching power supplies

Types 5 / 10 / 18W 30 / 60W 90 / 100W









	40					1		-		
Dimensions HxWxD (mm)		90 x 22	.5 x 114		90	0 x 40.5 x 11	4		90 x 54 x 114	
Output specificat	tions									
Voltage	5 VDC	12 VDC	15 VDC	24 VDC	12 VDC	24 VDC	48 VDC	12 VDC	24 VDC	48 VDC
Current SPD 5 W	1 A	420 mA	340 mA	210 mA						
Current SPD 10 W	2 A	840 mA	670 mA	420 mA						
Current SPD 18 W	3 A	1.5 A	1.2 A	750 mA						
Current SPD 30 W					2.5 A	1.25 A	625 mA			
Current SPD 60 W					5 A	2.5 A	1.25 A			
Current SPD 90 W				,					3.8 A	
Current SPD 100 W								8.4 A	4.2 A	2.1 A
Line regulation			1%			±0.5%			±1%	
Load regulation			2%			±0.5%			±1%	
Efficiency	75%	77%	77%	77%	86%	89%	89%		85%	
Input specification	ons									
Voltage range	Mul	ti voltage: 9	0 to 265 V 370 VDC	AC or		age: 85 to 26 00 to 375 VDC		Multi vo	oltage: 90 to 26 120 to 375 VD	4 VAC or
			63 Hz			47 to 63 Hz	•		47 to 63 Hz	· ·
Frequency range General specifications General specifications	-tions	4/ 10	03 ПД			47 10 03 HZ			47 10 03 HZ	
<u> </u>	ations	4000 1	. 7100			1000 1 710	<u> </u>		25061710	<u> </u>
Ambient temperature			+71°C		-40°C to +71°C -40°C to +85°C			-35°C to +71°C		
Storage			+85°C		-4	2.5 % /°C		-40°C to +85°C		
Derating (>60°C)	3 % /°C			.III T	2.5 % / °C 1ÜV - CE - Clas	- I DIVO	2.5 % /°C cULus - TÜV - CE - Class I DIV2		- 1 DIVO	
Approvals / Marks Installation	cULus - TÜV - CE - Class I DIV2			CULUS - I	DIN Rail	SIDIVZ	DIN Rail		SIDIVZ	
Connection	DIN Rail Screw terminals / Spring terminals (B)			Canani tanunin	als / Spring t	auminala (D)	Cauaiii taum		in.al. /D\	
	Screw ic	erminais / 3	pring term	iliuis (D)	ocrew termin	uis / Spring i	eriiiiiais (d)	Screw leriii	inals / Spring t	erminais (b)
Main features										
	Adjustable output voltage. Internal noise filter. Short circuit protection. Overload protection (110-135%)		filter. Short c	tput voltage. I ircuit protectic 10-135 %). Ou VDC (only mo	n. Overload Jtput "Power	Short circuit (102-108%), P	put voltage. Inte protection. Overl FC. Overvoltage put "Power read	oad protection protection (10		
LED indicator for "power on"		Υ	es			Yes			Yes	
LED indicator for DC "too low"		Υ	es		No - SPD2	No - SPD24 with transistor output		Yes with relay output		
References										
5 VDC										
Screw terminals	SP	D05051 SPD0		01						
Spring terminals	SPD	05051B SPD0:	/ SPD051 5181B	01B						
12 VDC				·				<u> </u>	<u> </u>	
Screw terminals		D12051 SPD1	2181		SPD12	301 / SPD	12601		SPD121001	
Spring terminals	SPD12051B / SPD12101B SPD12181B		SPD123	01B / SPD	12601B					
24 VDC										
Screw terminals		D24051 SPD2	4181		SPD24	301 / SPD	12401	SPD24	901L / SPD2	41001L
Spring terminals	SPD	24051B SPD24	/ SPD241 1181B	01B	SPD243	01B / SPD:	24601B			
48 VDC										
Screw terminals						301 / SPD4			SPD481001	
Spring terminals					SPD483	01B / SPD4	18601B			-



Single	phase	switching	power	supp	lies
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Types 120W / 120W(N) 240W 300W 480W









Dimensions HxWxD (mm)	124.5 x 64 x 123.6	124.5 x 83.5 x 123.6	124.5 x 83.5 x 123.6	124.5 x 175.5 x 123.6	
Output specificat	tions				
Voltage	12 VDC 24 VDC 48 VDC	24 VDC 48 VDC	24 VDC 48 VDC	24 VDC 48 VDC	
Current	10 A 5 A 2.5 A	10 A 5 A	12.5 A 6.25 A	20 A 10 A	
Line regulation	±0.5% ±0.5%	±0.5%	±0.5%	±0.5%	
Load regulation	±1% ±1%	±1%	±1%	±1%	
Efficiency	84% 86% 86%	89% 90%	89% 90%	89% 90%	
Input specification	ons				
Voltage range	Autoselect: 90 to 132 VAC, 180 to 264 VAC, 120 to 375 VDC	Autoselect: 90 to 132 VAC, 180 to 264 VAC, 120 to 375 VDC	Autoselect: 90 to 132 VAC, 180 to 264 VAC 120 to 375 VDC	Autoselect: 90 to 132 VAC, 186 to 264 VAC, 120 to 370 VDC	
Frequency range	47 to 63 Hz	47 to 63 Hz	47 to 63 Hz	47 to 63 Hz	
PFC	0.7	0.75	0.75	0.99	
General specific	ations				
Ambient temperature	-35°C to +71°C	-40°C to +71°C	-30°C to +71°C	-40°C to +71°C	
Storage	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	
Derating (>60°C)	2.5 % /°C	2.5 % /°C	2.5 % /°C	2.5 % /°C > 56°C	
Approvals / Marks	cULus - TÜV - CE - ClassI DIV2	cULus - TÜV - CE - ClassI DIV2	cULus - TÜV - CE - ClassI DIV2	cULus - TÜV - CE - ClassI DIV2	
Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail	
Connection	Screw terminals / Spring terminals (B)	Screw terminals / Spring terminals (B)	Screw terminals / Spring terminals (B)	Screw terminals / Spring terminals (B)	
Main features					
	Adjustable output voltage. Internal noise filter. Short circuit protection. Overload protection (110- 145%). Parallel connection up to 3 supplies and PFC function on (N) model only	Adjustable output voltage. Internal noise filter. Short circuit protection. Overload protection (110- 145%). Parallel connection up to 3 supplies standard. PFC function integrated.	Parallel function, PFC and Output ready	Adjustable output voltage. Internal noise filter. Short circuit protection. Overload protection (120- 140%). Parallel connection up to 3 supplies standard. PFC function integrated.	
LED indicator for "power on"	Yes	Yes	Yes, 24 V with output ready	Yes	
LED indicator for DC "too low"	Yes - with relay output (SPD24 only)	Yes - with relay output (SPD24 only)	Yes	Yes - with relay output (SPD24 only)	
References					
12 VDC					
Screw terminals	SPD121201 SPD121201N				
Detatch. screw terminals	SPD121201B SPD121201BN				
24 VDC					
Screw terminals	SPD241201 SPD241201N	SPD242401	SPD243001	SPD244801	
Detatch. screw terminals	SPD241201B SPD241201BN	SPD242401B	SPD243001B	SPD244801B	
48 VDC					
Screw terminals	SPD481201 SPD481201N	SPD482401	SPD483001	SPD484801	
Detatch. screw terminals	SPD481201B SPD481201BN	SPD482401B	SPD483001B	SPD484801B	



Three phase switching power supplies

Types SPD 120W 3-ph SPD 240W 3-ph SPD 480W 3-ph SPD 960W 3-ph









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Dimensions HxWxD (mm)	124 x 74.3 x 118.8 124		124 x 89	.0 x 118.8	124 x 150 x 118.8		126.2 x 27	5.8 x 118.8
Output specificat	tions							
Voltage	12 VDC	24 VDC	24 VDC	48 VDC	24 VDC	48 VDC	24 VDC	48 VDC
Current	10 A	5 A	10 A	5 A	20 A	10 A	40 A	20 A
Line regulation	±1%	/ 0	±	1%	±	1%	±1%	
Load regulation	±1%	/ 0	±	1%	±	1%	±1%	
Efficiency	87%	89%	90%	91%	90%	91%	92%	93%
Input specification	ons							
Voltage range	340 to 57 480 to 82			575 VAC 820 VDC		575 VAC 820 VDC		575 VAC 320 VDC
Frequency range	47 to 63		47 to	63 Hz	47 to	63 Hz	47 to	63 Hz
PFC	0.55	5	0.	.55	0.	65	0.	80
General specific	ations							
Ambient temperature	-40°C to -	+71°C	-25°C t	o +71°C	-30°C t	o +71°C	-40°C to +71°C	
Storage	-40°C to -	+85°C	-25°C to +85°C		-40°C to +85°C		-40°C to +85°C	
Derating	2.5 % /°C > 61°C		2.5 % /°C > 61°C		2.5 % /°C > 61°C		3.5 % /°C > 61°C	
Approvals / Marks	cULus - TÜ		cULus - TÜV - CE		cULus - TÜV - CE		cULus - TÜV - CE	
Installation	DIN Rail		DIN Rail		DIN Rail		DIN Rail	
Connection	Screw teri	minals	Screw t	erminals		nals / Detach nn.	Screw to	erminals
Main features								
	Can be used Three phase, Par and P	allel function	Three phase, I	ed as Bi or Parallel function I PFC	Three phase, F	ed as Bi or arallel function PFC	Three Active paralle	ed as Bi or phase. I function and FC
LED indicator for "power on"	Yes, 24 V with a	output ready	Yes, 24 V wit	h output ready	Yes, 24 V wit	ı output ready	Yes, 24 V with	output ready
LED indicator for DC "too low"	Yes		١	es es	Υ	es	Y	es
References								
12 VDC								
Screw terminals	SPD121	203						
24 VDC								
Screw terminals	SPD241	203	SPD2	42403		44803 14803B	(without par	19603 19603L allel function ut ready)
48 VDC								
Screw terminals			SPD4	82403		84803 84803B	SPD48	39603



Switching			نامسان	se vodundens n	a advila a		
Swirching	Bi-ph	ase swi	tching	es, redundant modules Redundant modules			
Types		100W		SPD Redundant Module	SPM Redundant Module		
	The state of the			三			
Dimensions HxWxD (mm)		90 x 54 x 114	1	90 x 54 x 114	91 x 35 x 56		
Output specificat	ions						
Voltage	12 VDC	24 VDC	48 VDC	24 VDC	24 VDC		
Current	8.4 A	4.2 A	2.1 A	20 A	10 A		
Line regulation		±1%					
Load regulation		±1%					
Efficiency	86%	87%	89%				
Input specificatio	ns						
Voltage range		340 to 575 VA 480 to 820 VA		21 to 28VDC	21 to 48 VDC		
Frequency range		47 to 63Hz					
PFC		0.55					
General specifica	tions						
Ambient temperature		-40°C to +71°	C	-40°C to +71°C			
Storage		-40°C to +85°	C	-40°C to +85°C			
Derating (>60°C)		2.5% /°C					
Approvals / Marks	cULus -	TÜV - CE - Clas	ss I DIV2	cULus - TÜV - CE			
Installation		DIN Rail		DIN Rail	DIN Rail		
Connection		Screw termina	s	Screw terminals	Screw terminals		
Main features							
	Parallel fun	ction, PFC and	Output ready	2 Relay outputs for remote monitoring			
LED indicator for "power on"	Yes - with	relay output (S	PD24 only)	Yes - with relay output (SPD24 only)			
LED indicator for DC "too low"		Yes					
References							
12 VDC							
Screw terminals		SPD121002	?				

SPD241002

SPD481002

24 VDC Screw terminals

48 VDC

Screw terminals

SPD24RM20

SPM2RM2410



				•				
Switching	power su	oplies						
Low profile DIN rail mounting								
Types	SPM 1	SPM 3	SPM 4	SPM 5				
Dimensions HxWxD (mm)	91 x 18 x 55.5	91 x 52 x 55.5	91 x 71 x 55.5	91 x 90 x 55.5				
Output specificat	tions							
Voltage	5 VDC, 12 VDC, 15 VDC, 24 VDC	5 VDC, 12 VDC, 15 VDC, 24 VDC	5 VDC, 12 VDC, 15 VDC, 24 VDC	5 VDC, 12 VDC, 15 VDC, 24 VDC, 24 VDC (S ver.)				
Current	1.5 A - 0.83 A 0.67 A - 0.42 A	3.0 A - 2.1 A 2.0 A - 1.3 A	7.0 A - 4.5 A 4.0 A - 2.5 A	12 A - 6 A - 5 A 4.2 A - 3.8 A				
Line regulation	±1%	±1%	±1%	±1%				
Load regulation	±1%	±1%	±1%	±1%				
Input specification	ons							
Voltage range	Autoselec 90 to 264 VAC, 120 to 370 VDC	Autoselec 90 to 264 VAC, 120 to 370 VDC	Autoselec.: 90 to 264 VAC, 120 to 370 VDC	Autoselec.: 90 to 264 VAC, 120 to 370 VDC				
Frequency range	47 to 63Hz	47 to 63Hz	47 to 63Hz	47 to 63Hz				
General specific	ations							
Ambient temperature	-25°C to +71°C	-25°C to +71°C	-25°C to +71°C	-25°C to +71°C				
Storage	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C				
Derating (>60°C)	2.5 % /°C	2.5 % /°C	2.5 % /°C	2.5 % /°C				
Approvals / Marks	cULus - TÜV - CE - ClassI DIV2	cULus - TÜV - CE - ClassI DIV2	cULus - TÜV - CE - ClassI DIV2	cULus - TÜV - CE - ClassI DIV2				
Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail				
Connection	Screw terminals	Screw terminals	Screw terminals	Screw terminals				
Main features								
		Adjustable output voltage	Adjustable output voltage	Adjustable output voltage				
LED indicator for "power on"	Yes	Yes	Yes	Yes				
LED indicator for DC "too low"	Yes	Yes	Yes	Yes				
References								
5 VDC	SPM1-051	SPM3-051	SPM4-051	SPM5-051				
12 VDC	SPM1-121	SPM3-121	SPM4-121	SPM5-121				
15 VDC	SPM1-151	SPM3-151	SPM4-151	SPM5-151				
24 VDC	SPM1-241	SPM3-241	SPM4-241	SPM5-241				

SPM5-241S

24 VDC (class 2 UL)



Enclosed switching power supplies

Types SPPC 25 W SPPC 35 W SPPC 50 W SPPC 75 W







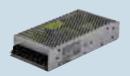


Dimensions HxWxD (mm)	79 x 51 x 28.8	101.6 x 63.5 x 33	99 x 82 x 35	129 x 98 x 38
Output specific	ations			
Voltage	5V, 12V, 24V	5V, 12V, 24V	5V, 12V, 15V, 24V, 48V	5V, 12V, 24V, 48V
Current	5A, 2.1A, 1.1A	6A, 3A, 1.5A	8A, 4.2A, 3.4A, 2.2A, 1.12A	12A, 6A, 3.2A, 1.62A
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation	±2.0%, ±1.0%, ±1.0%	±1.0%	±1.0%	±2.0%
Efficiency (typ) 115VAC 230VAC		79%, 83%, 86% 80%, 84%, 87%	79%, 84%, 85%, 86%, 88% 80%, 85%, 86%, 87%, 89%	79%, 84%, 87%, 88% 80%, 85%, 88%, 89%
Input specificat	tions			
Voltage range	90 ~ 264VAC 127 ~ 370VDC	90 ~ 264VAC 127 ~ 370VDC	90VAC~264VAC 27~370VDC	90VAC~264VAC 127~370VDC
Frequency range	47-63Hz	47-63Hz	47Hz~63Hz	47Hz~63Hz
General specifi	ications			
Ambient temperature	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Storage	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C;
Derating (>50°C)	2% /°C	2% /°C	1.5% /°C	1.5% /°C
Cooling	Free air convection	Free air convection	Free air convection	Free air convection
Approvals / Marks	UL60950-1 2 nd Ed, IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006	UL60950-1 2 nd Ed, IEC 60950-1:2005 (2 nd Ed) ; EN60950-1:2006	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006
Installation	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Main features				
Mounting	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)
References				
5 VDC	SPPC 525 1	SPPC 535 1	SPPC 550 1	SPPC 575 1
12 VDC	SPPC 1225 1	SPPC 1235 1	SPPC 1250 1	SPPC 1275 1
15 VDC			SPPC 1550 1	
24 VDC	SPPC 2425 1	SPPC 2435 1	SPPC 2450 1	SPPC 2475 1
48 VDC			SPPC 4850 1	SPPC 4875 1



Enclosed switching power supplies

Types SPPC 150 W SPPC 150 W (PFC)
Power Factor Correction





D			100 00 00					104 00 5		
Dimensions HxWxD (mm)	•		199 x 98 x 38	3				194 x 99 x 50)	
Output specifica	tions									
Voltage	5 VDC	12 VDC	15 VDC	24 VDC	48 VDC	5 VDC	12 VDC	15 VDC	24 VDC	48 VDC
Current	26 A	12.5 A	10 A	6.5 A	3.3A	30 A	12.5 A	10 A	6.3 A	3.2 A
Line regulation			± 0.5%					± 0.5%		
Load regulation			±1%					±1%		
Efficiency (typ)			up to 85%					up to 87%		
Built-in active PFC						PFC	> 0.98 @ 11	5 VAC ; PFC >	0.95 @ 230	VAC
Input specification	ons									
Voltage input range		88 - 132 VAC 176 - 264 VAC 124 - 186 VDC 248 - 370 VDC				88 - 264 VAC 124 - 370 VDC				
Frequency range		47- 63 Hz						47- 63 Hz		
General specific	ations									
Ambient temperature		-25°C to +70°C				-	25°C to +70°	C		
Storage		-40°C to +85°C			-30°C to +85°C					
Output short circuit		Long-	term, Auto red	overy		Long-term, Auto recovery				
Derating (>50°C)			2.5% / °C			2.5% / °C				
Approvals / Marks		CI	E - cURus - Rol	HS		CE - cURus - RoHS - CB				
Installation			Screw termina	l		Screw terminal				
Main features										
Mounting			zontal and Ve Inting accesso			Horizontal and Vertical (DIN rail mounting accessories available)				
References										
5 VDC		9	SPPC-5150	1		SPPC-5150 1F				
12 VDC		S	PPC-12150	1			SI	PPC-12150	1F	
15 VDC		SPPC-15150 1			SPPC-15150 1F					
24 VDC			PPC-24150					PPC-24150		
48 VDC		SPPC-48150 1				SPPC-48150 1F				



Compact enclosed switching power supplies

Types SPPC 200 W SPPC 240 W SPPC 320 W







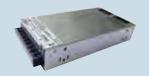
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Dimensions HxWxD (mm)	199 x 99 x 50	199 x 99 x 50	199 x 99 x 50
Output specifica	tions		
Voltage	5V, 12V, 24V, 48V	12V, 24V	5V, 12V, 24V, 48V
Current	40A, 16.7A, 8.4A, 4.2A	20A, 10A	55A, 25A, 13A, 6.7A
Line regulation	±0.5%	±0.5%	±0.5%
Load regulation	±1.0%	±1.0%	±1.0%
Efficiency (typ)	79%, 84%, 86%, 87.5%	84%, 86%	79%, 84.5%, 87%, 87.5%
Built-in active PFC	(115VAC): PF>0.98 (230VAC): PF>0.96	(115VAC): PF>0.98 (230VAC): PF>0.96	(115VAC): PF>0.98 (230VAC): PF>0.96
Input specification	ons		
Voltage range	85 ~ 264VAC 120 ~ 370VDC	85~ 264VAC 120 ~ 370VDC	85~ 264VAC 120 ~ 370VDC
Frequency range	47-63Hz	47-63Hz	47-63Hz
General specific	ations		
Ambient temperature	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Storage	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Derating (>50°C)	2% /°C	2% /°C	2% /°C
Cooling	Forced air (built-in DC fan controlled by load and internal temperature)	Forced air (built-in DC fan controlled by load and internal temperature)	Forced air (built-in DC fan controlled by load and internal temperature)
Approvals / Marks	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006
Installation	Screw terminal	Screw terminal	Screw terminal
Main features			
Mounting	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)
References			
5 VDC	SPPC 5200 1FC		SPPC 5320 1FC
12 VDC	SPPC 12200 1FC	SPPC 12240 1FC	SPPC 12320 1FC
15 VDC			
24 VDC	SPPC 24200 1FC	SPPC 24240 1FC	SPPC 24320 1FC
48 VDC	SPPC 48200 1FC		SPPC 48320 1FC

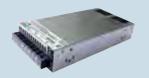


Compact enclosed switching power supplies

Types SPPC 480 W SPPC 600 W SPPC 800 W







Dimensions HxWxD (mm)	218 x 116.5 x 41	218 x 116.5 x 41	226 x 116.5 x 41
Output specifica	tions		
Voltage	12V, 24V, 36V, 48V	12V, 24V, 36V, 48V	24V, 48V
Current	34A, 22A, 14A, 11A	(100~127VAC): 34A, 22A, 14A, 11A (128~264VAC): 42A, 26.5A, 17.5A, 13.6A	(100~127VAC): 27A, 14A (128~264VAC): 33A, 16.5A
Line regulation	±0.5%, ±0.5%, ±0.5%, ±0.2%	±0.5%	±0.5%
Load regulation	±1.0%	±1.0%	±1.0%
Efficiency (typ)	88%, 89%, 90%, 90%	88%, 89%, 90%, 90%	88%, 89%
Built-in active PFC	(115VAC): PF>0.98 (230VAC): PF>0.96	(115VAC): PF>0.98 (230VAC): PF>0.96	(115VAC): PF>0.98 (230VAC): PF>0.96
Input specification	ons		
Voltage range	90~ 264VAC 127 ~ 370VAC	90~ 264VAC 127 ~ 370VAC	90~ 264VAC 127 ~ 370VAC
Frequency range	47-63Hz	47-63Hz	47-63Hz
General specific	ations		
Ambient temperature	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Storage	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Derating (>50°C)	2% /°C	2% /°C	2% /°C
Cooling	Forced air (built-in DC fan controlled by load and internal temperature)	Forced air (built-in DC fan controlled by load and internal temperature)	Forced air (built-in DC fan controlled by load and internal temperature)
Approvals / Marks	UL60950-1 2 [™] Ed; IEC 60950-1:2005 (2 [™] Ed); EN60950-1:2006	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006
Installation	Screw terminal	Screw terminal	Screw terminal
Main features			
Mounting	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)	Horizontal and Vertical (DIN rail mounting accessories available)
References			
12 VDC	SPPC 12480 1FC	SPPC 12600 1FC	
24 VDC	SPPC 24480 1FC	SPPC 24600 1FC	SPPC 24800 1FC
36 VDC	SPPC 36480 1FC	SPPC 36600 1FC	
48 VDC	SPPC 48480 1FC	SPPC 48600 1FC	SPPC 48800 1FC