

Switching power supplies						
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		
<b>Output specificat</b>	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 specifica	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		
24 VDC (class 2 UL)				SPM5-241S		



### **Enclosed switching power supplies**

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







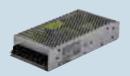


Dimensions HxWxD (mm)	79 x 51 x 28.8	101.6 x 63.5 x 33	99 x 82 x 35	129 x 98 x 38			
Output specificat	ions						
Voltage	5V, 12V, 24V	5V, 12V, 24V	5V, 12V, 15V, 24V, 48V	5V, 12V, 24V, 48V			
Current	5A, 2.1A, 1.1A	6A, 3A, 1.5A	8A, 4.2A, 3.4A, 2.2A, 1.12A	12A, 6A, 3.2A, 1.62A			
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%			
Load regulation	±2.0%, ±1.0%, ±1.0%	±1.0%	±1.0%	±2.0%			
Efficiency (typ) 115VAC 230VAC	76%, 80%; 84% 78%, 82%, 85%	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 specifications							
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 specifica	tions						
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 <sup>nd</sup> Ed, IEC 60950-1:2005 (2 <sup>nd</sup> Ed); EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed, IEC 60950-1:2005 (2 <sup>nd</sup> Ed) ; EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> Ed); EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> 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					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	PFC > 0.98 @ 115 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 recovery				Long-term, Auto recovery				
Derating (>50°C)		2.5% / °C		2.5% / °C						
Approvals / Marks		CE - cURus - RoHS			CE - cURus - RoHS - CB					
Installation		Screw terminal			Screw terminal					
Main features										
Mounting		Horizontal and Vertical (DIN rail mounting accessories available)			Horizontal and Vertical (DIN rail mounting accessories available)					
References										
5 VDC		SPPC-5150 1			SPPC-5150 1F					
12 VDC		SPPC-12150 1		SPPC-12150 1F						
15 VDC		SPPC-15150 1			SPPC-15150 1F					
24 VDC		SPPC-24150 1			SPPC-24150 1F					
48 VDC		SPPC-48150 1			SPPC-48150 1F					

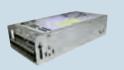


#### Compact enclosed switching power supplies

Types SPPC 200 W SPPC 240 W SPPC 320 W







Dimensions HxWxD (mm)	199 x 99 x 50	199 x 99 x 50	199 x 99 x 50				
Output specifications							
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 specifications							
Voltage range	85 ~ 264VAC 120 ~ 370VDC	85~ 264VAC 120 ~ 370VDC	85~ 264VAC 120 ~ 370VDC				
Frequency range	47-63Hz	47-63Hz	47-63Hz				
General specifications							
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 <sup>™</sup> Ed; IEC 60950-1:2005 (2 <sup>™</sup> Ed); EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> Ed); EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> 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 12V, 24V, 36V, 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 <sup>™</sup> Ed; IEC 60950-1:2005 (2 <sup>™</sup> Ed); EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> Ed); EN60950-1:2006	UL60950-1 2 <sup>nd</sup> Ed; IEC 60950-1:2005 (2 <sup>nd</sup> 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	