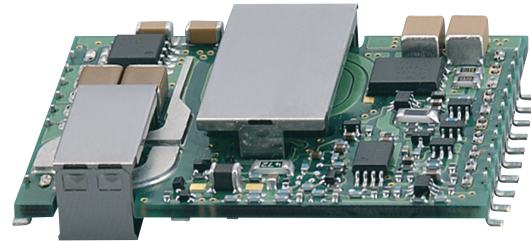


# SFS Series

10-30 WATTS SINGLE & DUAL OUTPUT DC/DC INDUSTRIAL

## Features

- Small footprint - low profile
- 50% smaller than ZU series
- Surface mount design
- High efficiency synchronous rectification
- High reliability – no electrolytic capacitors
- 1500Vdc input to output isolation



## Specifications

### INPUT

Input voltage	36-76Vdc
Startup voltage	32-36Vdc
Hysteresis voltage	2Vdc min.

### OUTPUT

Output voltage	See Table
Output current	See Table
Output power	See Table
Voltage setpoint accuracy	±1% of rated voltage
Voltage regulation	+5% -3%
Ripple & noise	1.2V–5V: 50mVp-p max. 10–15V: 150mVp-p max.
Over voltage protection	120-140% of rated voltage
Over current protection	Over 103% of rated current
Output low voltage shutdown	Below 90% of rated voltage
Startup time	20-200ms max.

### OPERATING

Efficiency	80% – 90% typical
Isolation In/Out	1.5kVdc, 1min IR>50MΩ at 500Vdc

## Selection Table

		OUTPUT RATING / MODEL NUMBER																			
		1.2V		1.5V		1.8V		2V		2.5V		3.3V		5V		10V		12V		15V	
<b>10W</b>		1.2V	3.5A	1.5V	3.5A	1.8V	3A	2V	3A	2.5V	3A	3.3V	3A	5V	2A	--	12V	0.9A	15V	0.7A	
		(4.2W)		(5.25W)		(5.4W)		(6.0W)		(7.5W)		(9.9W)		(10W)		--	(10.8W)		(10.5W)		
		<b>SFS10481R2</b>	<b>SFS10481R5</b>	<b>SFS10481R8</b>	<b>SFS104802</b>	<b>SFS10482R5</b>	<b>SFS10483R3</b>	<b>SFS104805</b>	--	<b>SFS104812</b>	<b>SFS104815</b>										
<b>15W</b>		1.2V	5.2A	1.5V	5.2A	1.8V	4.5A	2V	4.5A	2.5V	4.5A	3.3V	4.5A	5V	3A	--	12V	1.25A	15V	1A	
		(6.24W)		(7.8W)		(8.1W)		(9.0W)		(11.25W)		(14.85W)		(15.0W)		--	(15.0W)		(15.0W)		
		<b>SFS15481R2</b>	<b>SFS15481R5</b>	<b>SFS15481R8</b>	<b>SFS154802</b>	<b>SFS15482R5</b>	<b>SFS15483R3</b>	<b>SFS154805</b>	--	<b>SFS154812</b>	<b>SFS154815</b>										
<b>30W</b>		1.2V	10.4A	1.5V	10.4A	1.8V	9A	2V	9A	2.5V	9A	3.3V	9A	5V	6A	10V	3A	12V	2.5A	15V	2A
		(12.48W)		(15.6W)		(16.2W)		(18.0W)		(22.5W)		(29.7W)		(30.0W)		(30.0W)		(30.0W)		(30.0W)	
		<b>SFS30481R2</b>	<b>SFS30481R5</b>	<b>SFS30481R8</b>	<b>SFS304802</b>	<b>SFS30482R5</b>	<b>SFS30483R3</b>	<b>SFS304805</b>	<b>SFS304810</b>	<b>SFS304812</b>	<b>SFS304815</b>										

## ENVIRONMENTAL

Operating temperature	-40°C to +85°C
Humidity	20 – 95% RH Non-Condensing
Vibration	10Hz-55Hz 49.0m/s <sup>2</sup> (5G), x, y, and z axes
Impact	196.1m/s <sup>2</sup> (20G) once along x, y and z axes

## STANDARDS AND APPROVALS

Safety standards	with EN60950, UL60950, C-UL
CE Marking	Complies with LVD and EMC Directives
C Tick	AS/NZS CISPR11 Group 1 Class A
EMI standards	Complies with EN55022 Class A and EN55022 Class A with additional filter
EMC standard	Complies with EN61000-4-2, EN61000-4-3, EN61000-4-4 and EN61000-4-5 With additional filter and suppression

## MECHANICAL

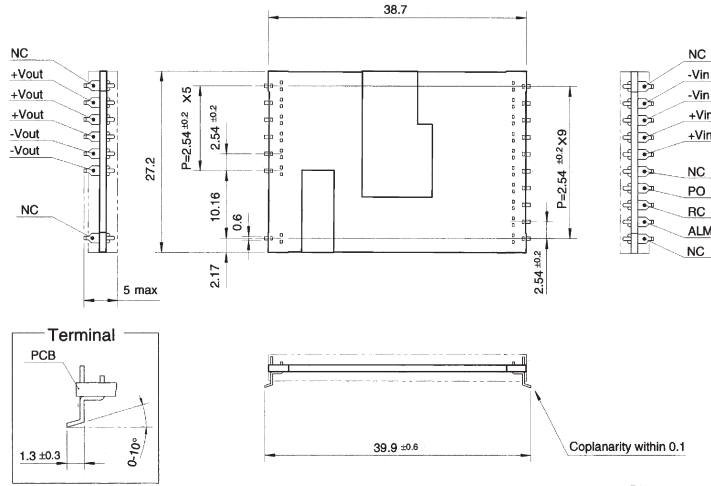
Dimensions / Weight	SFS10: 38.7x5.0x27.2mm (WxHxD) / 12g SFS15: 38.7x5.0x27.2mm (WxHxD) / 12g SFS30: 38.7x8.0x31.2mm (WxHxD) / 20g
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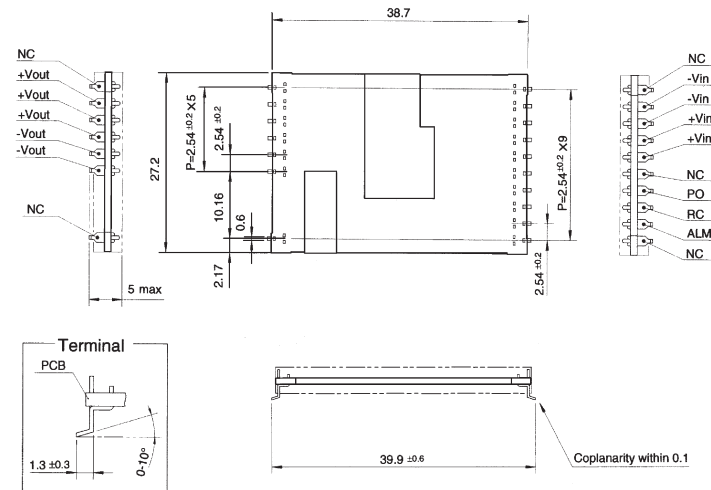
## Technical Illustration

### SFS10



※Dimensions in mm  
 ※Tolerance :  $\pm 0.5$   
 ※Weight : 12g or less

### SFS15



※Dimensions in mm  
 ※Tolerance :  $\pm 0.5$   
 ※Weight : 12g or less

### SFS30

