



OVERVIEW

- A 5U power sub-rack based on SiteFlex® MCU system controller and up to six 4 kW or 3 kW SiteFlex® rectifiers for various power applications
- Can be integrated with SiteFlex® 6 kW solar shelf
- Sub-rack is configured with DC distribution (LLVD/BLVD), DC SPD and battery breakers
- Up to 24 kW DC-power in 19" 5U sub-rack with front access operation and cabling
- Supports Ethernet, SNMP, ModBus and RS485 communication interfaces
- Wide AC input operating range 85 to 300 VAC for global requirements

PART NUMBERS

SFXPS 48-24-1 sub-rack:	1000036535
SFX 48R-4kW rectifier:	1000036554
SFX 48R-3kW rectifier:	1000036549
SFXPV 48-06-1 solar shelf:	1000036909
SFX MCU1 system controller (included in subrack):	1000036557
Blank for empty rectifier/converter position:	1000036558
Temperature sensor kit:	1000036559



SiteFlex 4kW Rectifier Module



SiteFlex 3kW Rectifier Module

ELECTRICAL		WITH SITEFLEX 48R-4KW	WITH SITEFLEX 48R-3KW
AC Input	Voltage	400 VAC, 3P+N+PE	
	Frequency	45 to 66 Hz, rated value is 50Hz/60 Hz	
	Power factor	≥0.99 @ 230 VAC @ 20%-100% load	
DC Output	Output voltage range	-42 VDC to -58 VDC	
	Output rated voltage	-53.5 VDC	
	Maximum power output	24 kW (max 6 rectifiers per sub-rack)	18 kW (max 6 rectifiers per sub-rack)
	Voltage regulation accuracy	≤±1%	
Rectifier Module	Efficiency	≥96.6%	≥96.1%
	Output power	4000 W (176 VAC to 290 VAC @ -40°C to 50°C) 1600 W (85 VAC to 176 VAC Linear derating)	3000 W (176 VAC to 290 VAC @ -40°C to 55°C) 1250 W (85 VAC to 176 VAC Linear derating)
Temperature derating	Output power (Rectifier)	4000 W @ -40°C to 50°C; 2700 W @ 65°C; 2000 W @ 75°C	3000 W @ -40°C to 55°C; 2400W @ 65°C; 1200 W @ 75°C
Contactors	BLVD	1 x 400 A	
	LLVD	1 x 400 A	
DC Distribution	Battery breakers	4 x 125 A/1p	
	BLVD (Prio loads)	2 x 6 A/1p, 2 x 10 A/p, 2 x 16 A/1p, 2 x 32 A/1p, 2 x 63 A/1p	
	LLVD (Non-prio loads)	1 x 32 A/1p, 2 x 40 A/1p, 2 x 63 A/1p, 2 x 125 A/1p	
Other	SPD	DC SPD protection (AC SPD to be installed in cabinet)	
	Communication	SNMP v1/v2c via Ethernet SNMP protocol supports GET, SET and TRAP TCP/IP, IPv4, SNMP via Ethernet, MODBUS RTU	
	Communication ports	RS485, Ethernet (10/100Mbit/s)	
	System I/O	6 dry contacts, 3 temperature inputs 7 digital inputs, 12 V Power output (100 mA max)	
	Web UI	All configurations done via web-UI (default IP address 192.168.70.2)	
	LED indicators	Operation indicator – Green Minor alarm – Yellow Major alarm - Red	
	Display	Controller has an integrated 128x32 LCD display	
	MECHANICAL SPECIFICATIONS		
Mechanical	Dimensions (H x W x D)	220.3 × 482.6 × 350.6 mm (5U, 19")	
	Weight	≤20 kg (Rectifier modules not included)	
	Ingress protection	IP20	
	Mounting	19 inch rack mounting	
ENVIRONMENT			
Environment	Cooling	Forced air cooling	
	Operating temperature	-40°C to +75°C (+50 to +75°C de-rated power output)	
	Transportation temperature	-40°C to +75°C	
	Storage temperature	-40°C to +75°C	
	Operating humidity	5% to 95% RH (non-condensing)	
	Storage humidity	5% to 95% RH (non-condensing)	
	Altitude	0 to 4000 m (3000 to 4000 m max temperature de-rates by 1°C/200m)	
STANDARDS AND CERTIFICATION			
Standards and Certification	EMC	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61000-3-2 , EN 61000-3-3, EN 55032 (EN 55016-2-3), EN 55032 (EN 55016-2-1)	
	Safety	EN 62638-1 Ed.2 IEC/EN 62368-1 Ed.3	
	CE Mark (UE)	Yes	
	RCM (AU and NZ)	Yes	
	RoHS/REACH/WEEE	Compliant	