

SiteFlex®

40KW/30KW POWER SYSTEM



OVERVIEW

- A 6U power sub-rack based on SiteFlex® MCU1 system controller and up to ten 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 40 kW DC-power in 19" 6U 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 48-40-1 sub-rack:	1000036541
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

Note: The product images shown are for illustration purposes only and may not be an exact representation of the product. EnerSys reserves the right to change product images and specifications at any time without notice.

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 50 Hz/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	40 kW (max 10 rectifiers per sub-rack)	30 kW (max 10 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 to 50°C) 1600 W (85 VAC to 176 VAC Linear derating)	3000 W (176 VAC to 290 VAC @ -40 to 50°C) 1250 W (85 VAC to 176 VAC Linear derating)
Temperature derating	Output power (Rectifier)	4000 W @ -40 to 50°C; 2000 W @ 75°C 1200 W @ 75°C	3000 W @ -40 to 50°C; 2400 W @ 65°C 1200 W @ 75°C
Contactors	BLVD	1 x 600 A	
	LLVD	1 x 600 A	
DC Distribution	Battery breakers	5 x 125 A/1p	
	BLVD (Prio loads)	2 x 6 A/1p, 1 x 10 A/p, 1 x 16 A/1p, 1 x 32 A/1p, 1 x 63 A/1p	
	LLVD (Non-prio loads)	2 x 32 A/1p, 2 x 63 A/1p, 4 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)	264 × 482.6 × 350.6 mm (6U, 19")	
	Weight	≤30 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	