

SiteFlex®

12KW POWER SYSTEM



OVERVIEW

- A 2U power sub-rack based on SiteFlex® MCU1 system controller and up to four 3 kW SiteFlex® rectifiers for various power applications
- Sub-rack is configured with bulk feed (bus bar connection). DC distribution, AC SPD and battery breakers to be installed in cabinet. Can be integrated with SiteFlex® 6 kW solar shelf
- Up to 12 kW DC-power in 19" 2U 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 48-16-1 sub-rack:	1000036530
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 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 SFX 48R-3KW
AC Input	Voltage	400VAC, 3P+N+PE
	Frequency	45 to 66Hz, rated value is 50Hz/60Hz
	Power factor	≥0.99 @ 230VAC @ full load
DC Output	Output voltage range	-42VDC to -58VDC
	Output rated voltage	-53.5VDC
	Maximum power output	12kW (max 4 rectifiers per sub-rack)
	Voltage regulation accuracy	≤±1%
Rectifier Module	Efficiency	≥96%
	Output power	3000 W (176VAC to 290VAC @ -40 to 50°C) 1250 W (85VAC to 176VAC Linear derating)
Temperature derating	Output power (Rectifier)	3000 W @ -40 to 50°C; 2400W @ 65°C 1200 W @ 75°C
Contactors	BLVD	1 x 200 A
	LLVD	2 x 200 A
DC Distribution	Battery breakers	Bulkfeed, no DC Distribution Maximum constant load 200 A
	BLVD (Prio loads)	
	LLVD (Non-prio loads)	
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	8 dry contacts, 4 temperature inputs 8 digital inputs, Mid-Point monitoring
	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)	88 × 482.6 × 380.5 mm (2U, 19")
	Weight	≤15 kg (Rectifier modules not included)
	Ingress protection	IP20
	Mounting	Support 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