

SiteFlex®

6KW SOLAR SHELF



OVERVIEW

- A 1U solar shelf up to 2 modular 3kW SiteFlex® Solar Converters + 2 x 63 A Solar PDUs modules to be integrated with SiteFlex power systems
- Ideal solution for on-grid and off-grid powered system installations by usage of free renewable solar energy, enabling large scale savings on energy costs and reducing the carbon footprint of network during its operational lifetime.
- Sub-rack is configured with bulk feed (cable connection).
- Up to 6 kW DC-power in 19" 1U sub-rack with front access operation and cabling
- Full integration with SiteFlex® MCU1 controller
- Wide DC input operating range from 120 to 425 VDC and high input current up to 17 A per MPPT for global requirements

PART NUMBERS

SFXPS 48-06-1 solar shelf:	1000036909
SFX 48S-3kW solar converter:	1000036555
SFX Solar PDU module, 63/2P (2pcs included in shelf):	1000036556
Blank for empty rectifier/converter position:	1000036558



SiteFlex 3kW Solar Converter

ELECTRICAL		
DC Output	Output voltage range	-42 VDC to -58 VDC
	Output rated voltage	-55.5 VDC
	Maximum power output	6 kW (max 2 solar converters)
	Voltage regulation accuracy	≤±1%
Temperature derating	Output power (MPPT)	MPPT: 3000 W @ -40 to 50°C; 2400 W @ 65°C; 1200 W @ 75°C
DC Distribution	Battery breakers	Bulkfeed, no DC Distribution
	BLVD (Prio loads)	
	LLVD (Non-prio loads)	
Other	SPD	Each MPPT input protected by T2 SPD
	Communication	CAN to the SiteFlex MCU1 controller
	System I/O	SPD Alarm output
	Web UI	All configurations done via web-UI after connecting to SiteFlex MCU1
	LED indicators	SPD Alarm – Red
MECHANICAL SPECIFICATIONS		
Mechanical	Dimensions (H x W x D)	44 × 482.6 × 380.5 mm (1U, 19")
	Weight	≤8 kg (MPPT 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/200 m)
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