



12kW DC Power Core (Front Access)

PRODUCT DESCRIPTION

The Moduflex+ series is designed using Enetek's high efficiency switchmode rectifier modules and intelligent controller that incorporates with the respective load and battery distribution, incoming AC as well as surge protection. The solution can be customized according to the specific requirements.

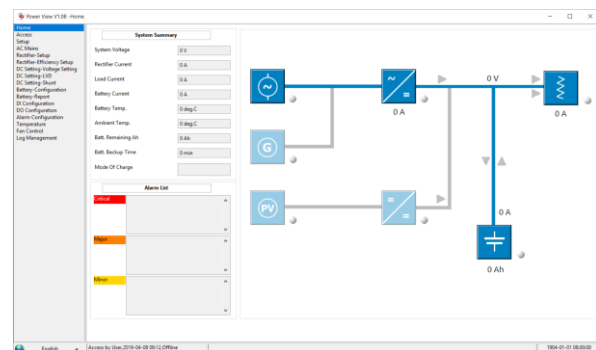
The SMU01 controller with user-friendly design, coupled with its compact size, simple-to-operate interface is highly adaptable and provides the monitoring capabilities for managing and optimizing the system solution.

KEY FEATURES

- **Hot-Swap Rectifier Modules**
Rectifier modules are hot-swappable and hot-pluggable.
- **Modular, Scalable Cabinet Design**
Flexible installations and capable of parallel cabinets for additional power/distribution
- **High Power Density**
Reduces footprint
- **Highly Efficient @ >96%**
Reduces losses and lowers operating costs
- **Front-to-back Airflow**
Unobstructed scalability of shelves
- **Excellent EMC Performance**
Lower interference and excellent susceptibility
- **Wide Input Voltage Range**
Continued operation in demanding grid conditions
- **Wide Temperature Range**
Applications in harsh climatic conditions
- **Compliant with Global Standards**
Delivers quality, performance and reliability in power solutions.

APPLICATIONS

- Macro cell BTS
- Microwave
- LTE / WiMax
- FTTX
- Broadband Access
- Optical Fibre Transmission System
- IDC (Internet Data Centres)



TECHNICAL SPECIFICATIONS

PART NUMBER	SPC30402.5XX
Capacity Range	12kW
INPUT SPECIFICATIONS	
Mains Input Configuration	1-Phase 230Vac
	3-Phase 230Vac (Δ)
	3-Phase 400Vac+N (Y)
Power Factor	≥ 0.99
Frequency	45Hz to 66Hz
THD	< 5% (50% to 100% load)
Input Protections	Soft Start
	Surge Protection
	Overvoltage Protection
OUTPUT SPECIFICATIONS	
Nominal Output Voltage	48.0Vdc
Output Power	12kW
Efficiency	>96%
BATTERY DISTRIBUTION	
Battery Low Voltage Disconnect	BLVD @ 200A
Battery Distribution	2 x 63A 1P MCB (Configurable)
LOAD DISTRIBUTION	
Load Low Voltage Disconnect	LLVD is optional
Load Distribution	5 x 10A 1P; 5 x 20A 1P Front Access MCB (Configurable)
CONTROLLER and RECTIFIER TYPE	
Rectifier Module	ETR ⁺ 2048/3048 range of rectifier modules
Controller Module	SMU01 (refer to datasheet)
ENVIRONMENTAL	
Operating Temperature Range	-20°C to +75°C (de-rates above 55°C)
Storage Temperature Range	-40°C to +85°C
Relative Humidity	Operating: 5% to 95% RH non-condensing
	Storage: 0% to 99% RH non-condensing
Acoustic Noise	≤ 58 dB @ full load, 40°C
PHYSICAL	
Dimensions WxDxH (mm)	482 x 432 x 88.8 (mm) (2U)
Net Weight	~10kg (excluding rectifier modules)
DESIGN STANDARDS	
Electrical Safety	EN/IEC62368-1
EMC	ETSI EN 300 386 V2.1.1, EN61000-6-1/-2/-3/-4