





## PRODUCT DESCRIPTION

The Moduflex+ 24Vdc 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.

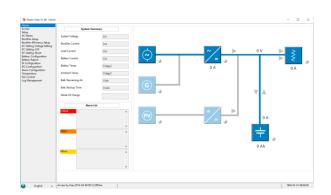
The SMU01 controller with user-friendly design, coupled with its compact size, simple-to-operate interface is highly adaptable and provides the monitoring capabilities for managing and optimizing the system solution.

## **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 @ up to 95%
   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

## **APPLICATIONS**

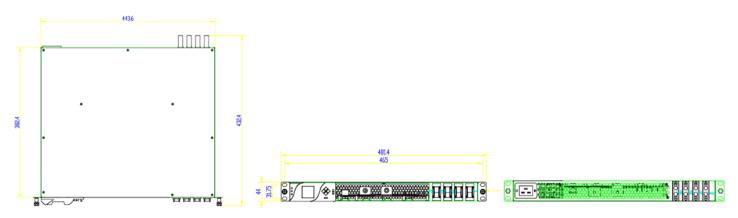
- Macro cell BTS
- Microwave
- LTE / WiMax
- FTTX
- Broadband Access
- Optical Fibre Transmission System
- IDC (Internet Data Centres)





## **TECHNICAL SPECIFICATIONS**

PART NUMBER	SPC40201.1XX
Capacity Range	3kW
INPUT SPECIFICATIONS	
Mains Input Configuration	1-Phase Nominal @ 230Vac (85Vac to 305Vac)
Power Factor	≥ 0.99
Frequency	45Hz to 66Hz
THD	< 5% (50% to 100% load)
Input Protections (Module Level)	Soft Start
	Surge Protection
	Overvoltage Protection
OUTPUT SPECIFICATIONS	
Nominal Output Voltage	24.0Vdc
Output Power	3kW
Efficiency	Up to 95%
BATTERY DISTRIBUTION	
Battery Low Voltage Disconnect	BLVD @ 100A
Battery Distribution	1 x 30A 1P MCB
LOAD DISTRIBUTION	
Load Distribution	3 x16A 1P MCB
CONTROLLER and RECTIFIER TYPE	
Rectifier Module	ETR <sup>+</sup> 1524 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 90% RH non-condensing
	Storage: 0% to 99% RH non-condensing
Acoustic Noise	≤58dB @ full load, 25°C
PHYSICAL	
Dimensions WxDxH (mm)	482 x 433 x 44 (1U)
Net Weight	~5kg (excluding rectifier modules)
DESIGN STANDARDS	
Electrical Safety	EN/IEC62368-1
EMC	ETSI EN 300 386 V1.6.1



Due to continuous product development, specifications are subject to change without prior notice

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