





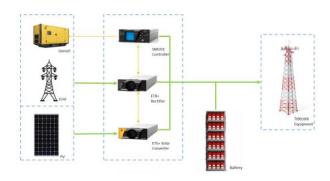
PRODUCT DESCRIPTION

The Moduflex+ Hybrid series is designed using Enetek's high efficiency switch-mode rectifier modules, solar converter modules which allows both grid/genset inputs as well as PV input, incorporated with the intelligent controller and power core that comes 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 user friendly SMU01 controller, coupled with its compact size and simple-to-operate interface, is highly adaptable and provides the monitoring capabilities for managing and optimizing the system solution.

APPLICATIONS

- Remote Sites
- Macro cell BTS
- Microwave
- LTE / WiMax
- FTTX
- Broadband Access
- Optical Fibre Transmission System



KEY FEATURES

- Wide MPPT Range
 To optimize solar power conversion
- Wide Temperature Range
 Applications in harsh environment
- Modular and Scalable Design
 Hot pluggable replacement or expansion
- Highly Efficient @ 97%
 Reduces losses and lowers Operating cost
- PV Input Ground Fault Detection
 Optional PV Input Ground Fault Detection
- Excellent EMC Performance
 Lower interference and excellent susceptibility
- Compliant with Global Standards
 Delivers quality, performance and reliability



TECHNICAL SPECIFICATIONS

MODEL	SPC20808S.1XX
INPUT SPECIFICATIONS	12kW + 12.8kW
Mains Input	1-Phase 230Vac; 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
PV Input	
Solar Input	85Vdc to 430Vdc
Input from Solar Array	4 x Connectors (20A)
Input Isolation	4 x 25A 2P MCB
Surge Protection	Included
OUTPUT SPECIFICATIONS	
Nominal Output Voltage	48.0Vdc
Output Power	12kW Rectifier + 12.8kW Solar
Peak Efficiency	97%
BATTERY DISTRIBUTION	
Battery Low Voltage Disconnect	BLVD @ 300A
Battery Distribution	4 x 27mm width 80A-125A 1P MCB (Configurable)
LOAD DISTRIBUTION	
Load Low Voltage Disconnect	LLVD is optional
Load Distribution	12 x 18m width 6A-63A 1P MCB (Configurable)
CONTROLLER and RECTIFIER TYPE	
Rectifier Module	ETR ⁺ 2048/3048 Rectifier and ETS ⁺ 3248 Solar Converter 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	≤58dB @ full load, 40°C
PHYSICAL	
Dimensions WxDxH	482 x 390 x 355 (mm) (8U)
Net Weight	~23kg (excluding Rectifier and Solar Converter modules)
DESIGN STANDARDS	
Electrical Safety	EN/IEC62368-1,EN/IEC62109-1
EMC	ETSI EN 300 386 V2.1.1, EN61000-6-1/-2/-3/-4

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

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