





Hybrid Power Core 6kW Rectifier + 6.4KW Solar

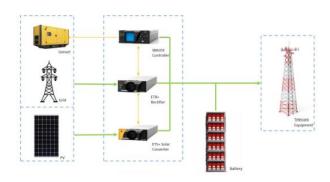
PRODUCT DESCRIPTION

The Moduflex+ Hybrid series is designed using Enetek's high efficiency switch-mode rectifier modules and solar converter modules, allowing both grid/genset inputs as well as PV input. Coupled with the intelligent controller, the powercore comes complete with the respective load and battery distribution, AC incoming as well as surge protection. The solution can be customized accordingly to specific requirements.

The user friendly SMU01 controller, coupled with its compact size and simple-to-operate interface, is highly adaptable and provides the monitoring and management of 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	Moduflex+ HYBRID
INPUT SPECIFICATIONS	6kW + 6.4kW
Mains Input	1-Phase 230Vac
Power Factor	≥ 0.99
Frequency	45Hz to 65Hz
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	2 x Connectors (20A)
Input Isolation	2 x 25A 2P MCB
Surge Protection	Included
OUTPUT SPECIFICATIONS	
Nominal Output Voltage	48.0Vdc
Output Power	6kW Rectifier + 6.4kW Solar
Peak Efficiency	97%
BATTERY DISTRIBUTION	
Battery Low Voltage Disconnect	BLVD @ 100A
Battery Distribution	2 x 60A 1P MCB (Configurable)
LOAD DISTRIBUTION	
Load Low Voltage Disconnect	LLVD is optional
Load Distribution	5 x 6-30A 1P MCB (Configurable)
CONTROLLER and RECTIFIER TYPE	
Rectifier Module	ETR ⁺ Rectifier and ETS ⁺ 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 +70°C
Relative Humidity	Operating: 5% to 98% RH non-condensing
	Storage: 0% to 98% RH non-condensing
Acoustic Noise	<58dB @ full load, 40°C
PHYSICAL	
Dimensions WxDxH	482 x 390 x 133 mm (3U)
Net Weight	~15kg (excluding Rectifier and Solar Converter modules)
DESIGN STANDARDS	
Electrical Safety	EN/IEC62368-1
EMC	EN55022/CISPR22 Class B, EN61000-4-2/-3/-4/-5/-11



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