



## Modupac+

### 6kW DC Power Core

#### PRODUCT DESCRIPTION

The Modupac+ 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.

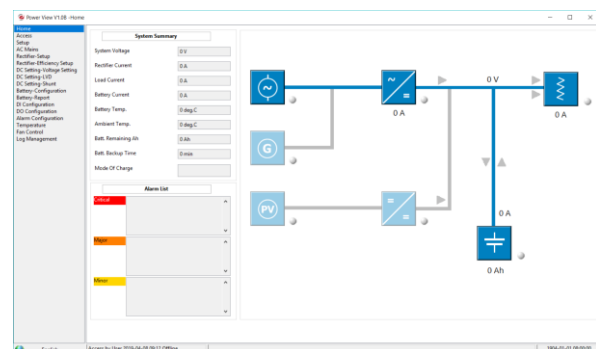
The SMU01 controller with user-friendly design, coupled with its compact size, simple-to-operate interface is highly adaptable and provides the monitoring capabilities for managing and optimizing the system solution.

#### KEY FEATURES

- **Hot-Swap Rectifier Modules**
- **Modular and Scalable**  
Flexible installations
- **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
- **Front Access**  
Allows installation with space constraints
- **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

| SPC80502.1XX                         |                                             |
|--------------------------------------|---------------------------------------------|
| Capacity Range                       | 6kW                                         |
| <b>INPUT SPECIFICATIONS</b>          |                                             |
| Mains Input Configuration            | 1Ph/ 3Ph-Phase 400/230Vac                   |
| Power Factor                         | ≥ 0.99                                      |
| Frequency                            | 45Hz to 65Hz                                |
| THD                                  | < 5% (50% to 100% load)                     |
| Input Protections                    | Soft Start                                  |
|                                      | Surge Protection                            |
|                                      | Overvoltage Protection                      |
| <b>OUTPUT SPECIFICATIONS</b>         |                                             |
| Nominal Output Voltage               | 48.0Vdc                                     |
| Output Power                         | 6kW                                         |
| Efficiency                           | Up to 95%                                   |
| <b>BATTERY DISTRIBUTION</b>          |                                             |
| Battery Low Voltage Disconnect       | BLVD @ 100A                                 |
| Battery Distribution                 | 2 x 63A 1P MCB                              |
| <b>LOAD DISTRIBUTION</b>             |                                             |
| Load Distribution                    | 5 x 10A 1P; 5 x 20A 1P MCB (Configurable)   |
| <b>CONTROLLER and RECTIFIER TYPE</b> |                                             |
| Rectifier Module                     | ETR <sup>+</sup> 948/1248 rectifier modules |
| Controller Module                    | SMU01 (refer to datasheet)                  |
| <b>ENVIRONMENTAL</b>                 |                                             |
| Operating Temperature Range          | -45°C to +65°C (de-rates above 45°C)        |
| Storage Temperature Range            | -40°C to +70°C                              |
| Relative Humidity                    | Operating: 5% to 95% RH non-condensing      |
|                                      | Storage: 0% to 99% RH non-condensing        |
| Acoustic Noise                       | ≤55dB @ full load, 25°C                     |
| <b>PHYSICAL</b>                      |                                             |
| Dimensions W x D x H (mm)            | 482 x 290 x 88 (2U)                         |
| Net Weight                           | ~10kg (excluding rectifier modules)         |
| <b>DESIGN STANDARDS</b>              |                                             |
| Electrical Safety                    | EN/IEC62368-1                               |
| EMC                                  | ETIS EN 300 386 V1.6.1                      |