



Telecomunicaciones



Data Centers



Industries



Renewable

GREENSHELF SOLAR SYSTEMS

PWSENAGREENSHELF

enATEL
energy



DESCRIPTION

With an industry-leading efficiency of >97.5%, in combination with advanced MPPT algorithmic response times of 99.5% efficiency, the greenSHELF ensures the greatest utilization of photovoltaic (PV) panel power generation and offers both a considerable reduction in operating costs and an increased return on investment. Solar harvesting starts sooner and lasts longer than comparable devices and each charging module is designed for use with one or two PV strings.

Its multiple expansion capability means greenSHELF can be used to meet and extend existing requirements. Standalone versions are also available.

The integrated energy controller in standalone applications is easily configured for individual site demands and includes advanced battery management functionality, logging and communication options for remote monitoring.

The design of the solar module is based on a high-frequency transformer, guaranteeing galvanic isolation between the PV panels and the load and batteries to improve lightning-strike immunity. Various additional elements such as surge protection devices, earth fault detection and back-feed protection ensure safety and investment preservation.

KEY FEATURES

- Modular design for ease of installation.
- Widest range of DC input for greatest PV panel exibility.
- Highest ef ciency conversion, more than 97.5%.
- Leading MPPT for maximum panel utilization and solar harvesting.
- Intelligent and intuitive blending of energy inputs.
- Easily customized for individual needs.
- Assists with reducing operating costs.
- Increases your return on investment.



SPECIFICATIONS

	PWSENAGREENSHELFV1	PWSENAGREENSHELFV2
ELECTRICAL		
DC Input	60–400V (refer to solar converter specification for full details)	
Termination	2x 6mm ² tunnel terminals	Phoenix screw terminals
DC Output Nominal Voltage	48V DC	48V DC
DC Output Max Output Power	2.0kW	8.0kW
DC Distribution	1x load circuit breaker (6-63A) 1x battery circuit breaker (max 63A)	
Breaker Fail Detection	Electronic fail detection	
DC Terminals	Load: 2x 6mm ² rear connect tunnel terminals Battery: 2x 6mm ² rear connect tunnel terminals	DC bulk busbar
MONITORING AND CONTROL (See SM35/SM36 datasheets)		
ENVIRONMENTAL REQUIREMENTS		
Ambient Temperature	-20°C to +70°C (maximum output power is derated above +55°C)	
MECHANICAL		
Dimensions (W, H, D)	482.6mm (19" mount), 44.45mm (1U), 350.0mm	
Weight	5.0kg (excluding solar modules)	
COMPLIANCES		
Safety	EN60950	
Other	CE & RoHS compliant	
PART NUMBERS		
PWSENAGREENSHELFV1	ultraCOMPACT system, 1x modular charger, 1x load 1x battery MCBs, SM36 supervisory module	
PWSENAGREENSHELFV2	Expansion shelf allows combinations of charger and isolation modules up to 8kw output	
CONFIGURATION OPTIONS		
Solar Charger	SM1848HE: 1.8kW modular convertor: 110V DC input, 48V DC output, 32.0A maximum output SM2048HE: 2.0kW modular convertor: 220V DC input, 48V DC output, 41.7A maximum output	
Supervisory Modules	SM35: standard monitor featuring full temperature compensation, automated and manual battery testing/equalisation SM36: enhanced monitor featuring full temperature compensation, automated and manual battery testing/equalisation with TCP/IP	
AIM V1	Aux Isolation Module	
AIM V2	Aux Isolation Module with SPD	
ABM-DIN2 V1	Aux Breaker Module with Shunt	

Latpower reserves the right to change product specifications and design without notice.

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