

Phaesun Photovoltaic Modules PN SPR-S130-135-140 - 24V

PN SPR-S135-130 PN SPR-S135-135 PN SPR-S135-140

Phaesun's SPR-S monocrystalline modules has multiple advantages. These modules are made with back-contact monocrystalline solar cells which are aesthetically pleasing in appearance. The cells have a unique structure, different from conventional cells, they yield average conversion efficiencies up to 20%.

Product Features:

- Photovoltaic modules made with unique back connected cells
- Cells with high conversion efficiency up to 20%
- Manufactured in ISO9001 certified factory
- Design to charge 12 to 48 V batteries for off-grid remote systems
- Made with high quality materials which qualifies high reliability of modules

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rechnical Data	LM 2LV-2122-120	FIN 3PK-3 133-133	FN 3FN-3 133-140		
Electrical Parameters					
Max Power (Pm) [W]	130	135	140		
Voltage at Max Power (Vmp) [V]	39.4	39.4	39.4		
Current at Max Power(Imp) [A]	3.30	3.43	3.57		
Open Circuit Voltage (Voc) [V]	48.2	48.2	48.2		
Short Circuit Current (Isc) [A]	3.75	3.80	3.91		
Cell Efficiency [%]	18.41	19.11	19.81		
Module Efficiency [%]	15.1	15.7	16.2		
Max Power Tolerance [%]	±5				
Nominal Operating Cell Temp [°C]	46 ±2				
Max System Voltage [V]	70				
Mechanical Parameters					
Cells Type and Number	Mono. BackContact, 144 pcs.				
Frame	>15µm clear anodized				
Junction Box	AM 1103-2 (IP65)				
Connector	MC 3 compatibel				
Cables [mm]	Cixi Renhe 1x4m², 1 meter (35.4 inch)				
Dimensions (X x Y x Z) [mm]	1083 x 796 x 35 (42.60 x 31.34 x 1.38 inch)				
Weight [kg]	12.25 (27.0 lbs)				
Temperature Coefficients					
Power [%/°C]	-0.38				
Voltage [mV/°C]	-65				
Current [mA/°C]	4.7				



