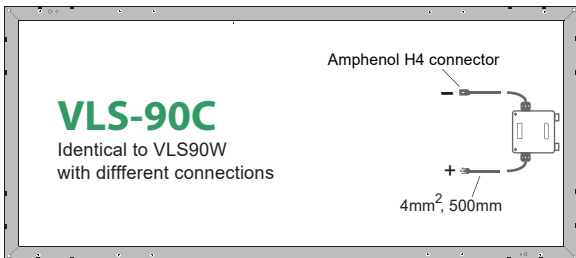
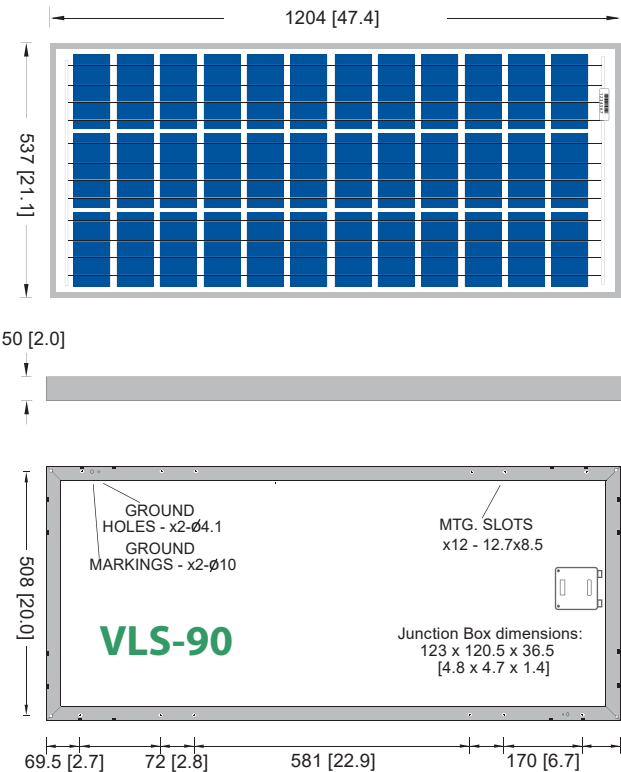


DIMENSIONS



Dimensions in mm [in].

Electrical characteristics

	⁽¹⁾ STC 1000W/m ²	⁽²⁾ NOCT 800W/m ²
Maximum power (P_{max})	90W / 100W	65W / 72W
Voltage at P_{max} (V_{mpp})	18.9V / 19.2V	16.9V / 17.1V
Current at P_{max} (I_{mpp})	4.8A / 5.2A	3.8A / 4.2A
Short circuit current (I_{sc})	5.0A / 5.6A	4.1A / 4.6
Open circuit voltage (V_{oc})	22.3V / 22.8	20.2V / 20.6V
Module efficiency	13.1% / 13.9%	
Tolerance (P_{max})	-0/+3%	
Nominal voltage	12V	
Efficiency reduction at 200W/m ²	<5% reduction (efficiency 13.2%)	
Limiting reverse current	5.04A / 5.58A	
Temperature coefficient of I_{sc}	0.105%/°C	
Temperature coefficient of V_{oc}	-0.360%/°C	
Temperature coefficient of (P_{max})	-0.45%/°C	
⁽³⁾ NOCT	47±2°C	
Maximum series fuse rating	20A	
Maximum system voltage	80V (U.S. NEC)	

1: Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM1.5 solar spectrum and 25°C module temperature
2: Values at 800W/m² irradiance, Nominal Operation Cell Temperature (NOCT) and AM1.5 solar spectrum
3: Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s wind speed

Mechanical characteristics

Solar cells	36 crystalline silicon cells in series
Front cover	High transmission 3.2mm (1/8th in) glass
Encapsulant	EVA
Back cover	White polyester
Frame	Silver anodized aluminum
Diodes	Two Schottky bypass diode included
Junction box	IP65 with 4 terminal screw connection block; accepts PG 13.5, M20 13mm (1/2") conduit, or cable fittings
Cable (-C)	500mm, PV1-F/PV Wire, 4mm ² /12AWG, DO:6±0.2mm
Connector (-C)	Amphenol H4
Dimensions	1204 x 537 x 50mm / 47.4 x 21.1 x 2in
Weight	7.7kg / 17lbs

All dimensional tolerances within ±1% unless otherwise stated.

Warranty*

- ▶ Free from defects in materials and workmanship for 2 years
- ▶ 90% minimum power output over 10 years

* Refer to warranty document for terms and conditions.

Certification

ISO 9001 ISO 9001 factory certification ensures that our manufacturing facilities use proven manufacturing and quality control processes.