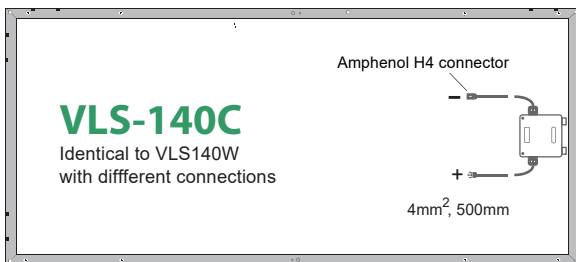
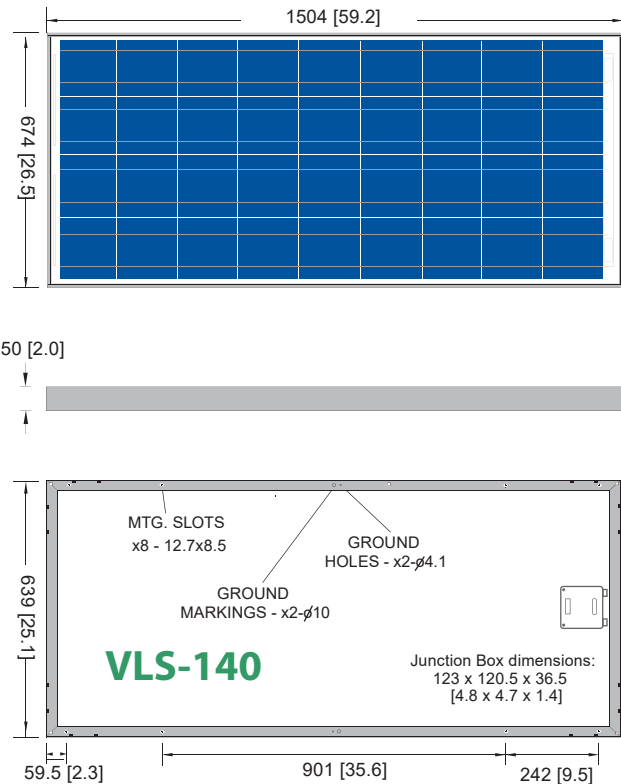


### DIMENSIONS



Dimensions in mm [in].

### Electrical characteristics

	(1) STC 1000W/m <sup>2</sup>	(2) NOCT 800W/m <sup>2</sup>
Maximum power (P <sub>max</sub> )	140W / 150W	101W / 108W
Voltage at P <sub>max</sub> (V <sub>mpp</sub> )	17.5V / 19.1	15.6V / 17.1
Current at P <sub>max</sub> (I <sub>mpp</sub> )	8.0A / 8.1A	6.4A / 6.5A
Short circuit current (I <sub>sc</sub> )	8.2A / 8.8A	6.7A / 7.2A
Open circuit voltage (V <sub>oc</sub> )	22.0V / 23.0V	19.9V / 20.8
Module efficiency	13.7% / 14.6%	
Tolerance (P <sub>max</sub> )	-0/+3%	
Nominal voltage	12V	
Efficiency reduction at 200W/m <sup>2</sup>	<5% reduction (efficiency 13.0%)	
Limiting reverse current	8.2A / 8.78A	
Temperature coefficient of I <sub>sc</sub>	0.105%/°C	
Temperature coefficient of V <sub>oc</sub>	-0.360%/°C	
Temperature coefficient of (P <sub>max</sub> )	-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/m<sup>2</sup> irradiance, AM1.5 solar spectrum and 25°C module temperature  
2: Values at 800W/m<sup>2</sup> irradiance, Nominal Operation Cell Temperature (NOCT) and AM1.5 solar spectrum  
3: Nominal Operation Cell Temperature: Module operation temperature at 800W/m<sup>2</sup> 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 <sup>2</sup> /12AWG, DO:6±0.2mm
Connector (-C)	Amphenol H4
Dimensions	1504 x 674 x 50mm / 59.2 x 26.5 x 2in
Weight	12kg / 26.5bs

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.