

Value Line Series (VLS) - 20W Panel

The Value Line Series (VLS) family of solar modules, offered by Ameresco Solar, is a reliable, rugged, and economic panel engineered for off-grid solar applications. The VLS line offers the rugged and reliable construction, materials, and performance.



The VLS-20W Panel features:

Rugged construction, precision engineering and quality components

Tempered glass, EVA lamination and weatherproof backskin that fosters long-life and enhanced cell performance

Manufactured according to International Quality and Environment Management System (ISO9001, ISO14001)

ELECTRICAL CHARACTERISTICS CERTIFICATIONS

Maximum power $(P_{max})^{(1)}$ 20W Tolerance (P_{max}) ±5% Open circuit voltage (V_{oc}) 21.4V Maximum power voltage (V_{mp}) 17.1V Short circuit current (I_{sc}) 1.30A Maximum power current at (I_{mp}) 1.17A Maximum system (DC) voltage 80V

Operation temperature range $-40^{\circ}\text{C} - 85^{\circ}\text{C}$ NOCT $^{(2)}$ $48\pm3^{\circ}\text{C}$ Temperature coefficient of I_{sc} $0.084\%^{\circ}\text{C}$ Temperature coefficient of V_{cc} $-0.390\%^{\circ}\text{C}$

- 1. Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM 1.5 solar spectrum and 25°C module temperature
- Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s wind speed

MECHANICAL CHARACTERISTICS

Output Cables AWG#18(0.75mm²) 2core

Length: 4572mm / 15ft ("+" red, "-" black)

Dimensions 520 × 350 × 35mm / 20.47 × 13.78 × 1.38 in

Weight 2.5kg / 5.5lbs

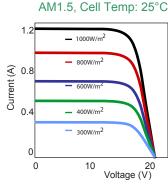
DIMENSIONS

350 (13.78)

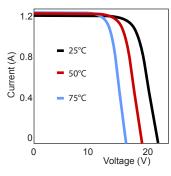
310 (12.20)

350 (13.78)

IV CURVES



Irradiance: AM1.5, 1KW/m



Photographs are intended to portray typical module appearance, actual module appearance may vary. Diagrams may not be proportionate and are intended for illustrative purposes only. 02/02/14

35 (1.38)