

Value Line Series (VLS) - 5W 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-5W 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⁾ 5W Tolerance (P_{max}) ±10% Open circuit voltage (V_{oc}) 21.4V Maximum power voltage (V_{mp}) 17.1V Short circuit current (I_{sc}) 0.32A Maximum power current at (I_{mp}) 0.29A Maximum system (DC) voltage 80V

Operation temperature range -40°C - 85°C NOCT(2) 48±3°C 0.084%/°C Temperature coefficient of Isc Temperature coefficient of V_{oc} -0.390%/°C

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

MECHANICAL CHARACTERISTICS

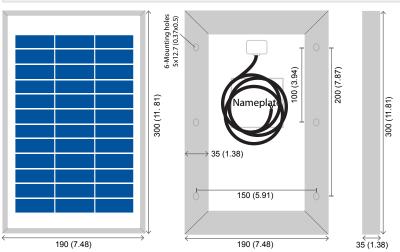
Output Cables AWG#18(0.75mm²) 2core

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

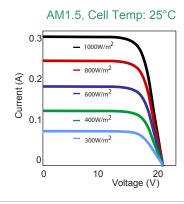
Dimensions 300 × 190 × 35mm / 11.81 × 7.48 × 1.38 in

Weight 0.7kg / 1.5lbs

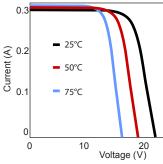
DIMENSIONS



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