

VLS

Value Line Series

Value Line Series (VLS) - 50W 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-50W 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

| | |
|--|--------------|
| Maximum power (P_{max}) ⁽¹⁾ | 50W |
| Tolerance (P_{max}) | ±5% |
| Open circuit voltage (V_{oc}) | 22.3V |
| Maximum power voltage (V_{mp}) | 18.0V |
| Short circuit current (I_{sc}) | 3.03A |
| Maximum power current at (I_{mp}) | 2.78A |
| Maximum system (DC) voltage | 80V |
| Operation temperature range | -40°C - 85°C |
| NOCT ⁽²⁾ | 48±3°C |
| Temperature coefficient of I_{sc} | 0.084%/°C |
| Temperature coefficient of V_{oc} | -0.390%/°C |

CERTIFICATIONS

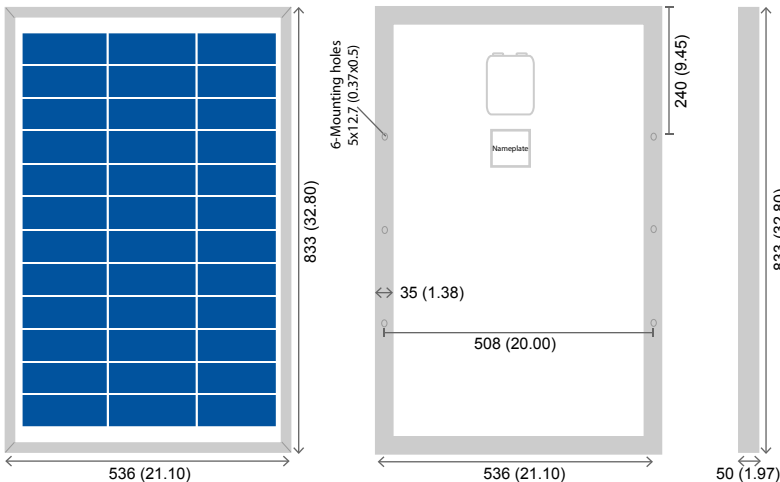


1. Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM 1.5 solar spectrum and 25°C module temperature
2. Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s wind speed

MECHANICAL CHARACTERISTICS

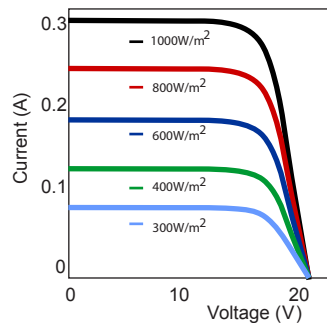
| | |
|------------|---|
| Dimensions | 833 × 536 × 50mm / 32.80 × 21.10 × 1.97in |
| Weight | 5.2kg / 11.5lbs |

DIMENSIONS

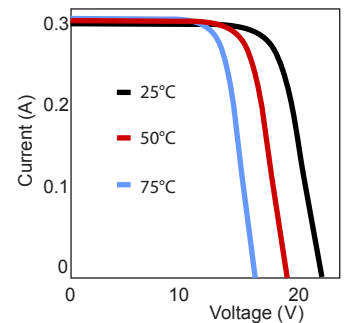


IV CURVES

AM1.5, Cell Temp: 25°C



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