

VLS

Value Line Series

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

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°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

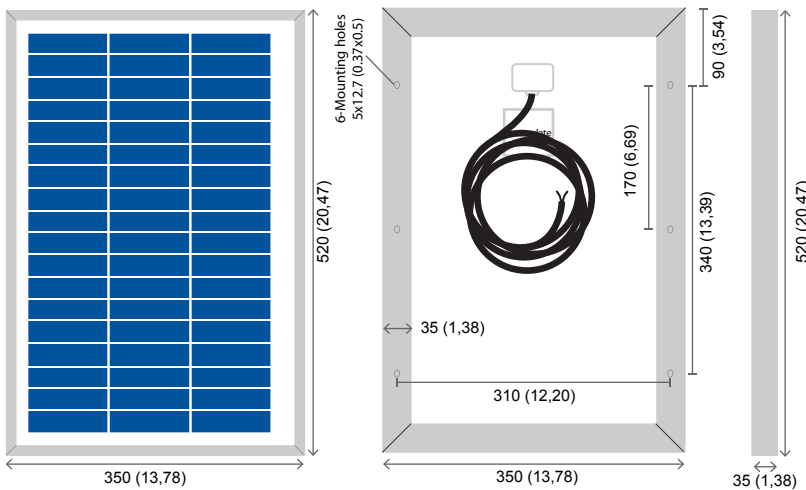


- Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM 1.5 solar spectrum and 25°C module temperature
- Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s wind speed

MECHANICAL CHARACTERISTICS

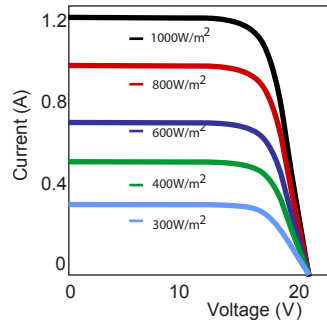
Output Cables	AWG#18(0.75mm ²) 2core Length: 4572mm / 15ft (“+” red, “-” black)
Dimensions	520 × 350 × 35mm / 20.47 × 13.78 × 1.38 in
Weight	2.5kg / 5.5lbs

DIMENSIONS

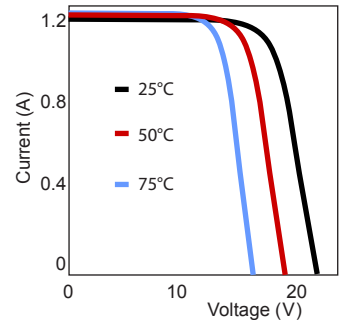


IV CURVES

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. 05/07/13