VLS Value Line Series

Value Line Series (VLS) - 10W 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-10W 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 $(P_{max})^{(1)}$ 10W Tolerance (P_{max}) ±10% Open circuit voltage (V_{oc}) 21.4V Maximum power voltage (V_{mp}) 17.1V Short circuit current (I_{sc}) 0.65A Maximum power current at (I_{mp}) 0.58A Maximum system (DC) voltage 80V Operation temperature range -40°C - 85

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} $-0.390\%^{\circ}\text{C}$

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

MECHANICAL CHARACTERISTICS

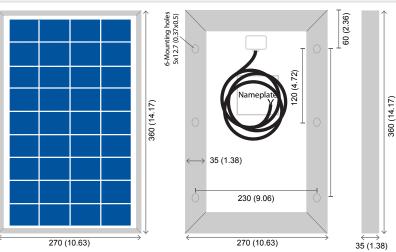
Output Cables AWG#18(0.75mm²) 2core

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

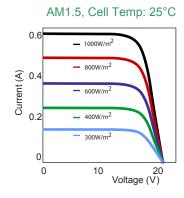
Dimensions 360 × 270 × 35mm / 14.17 × 10.63 × 1.38 in

Weight 1.2kg / 2.6lbs

DIMENSIONS



IV CURVES



Irradiance: AM1.5, 1KW/m

