

# 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 ( $P_{max}$ ) <sup>(1)</sup>	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 <sup>(2)</sup>	48±3°C
Temperature coefficient of $I_{sc}$	0.084%/°C
Temperature coefficient of $V_{oc}$	-0.390%/°C

### CERTIFICATIONS

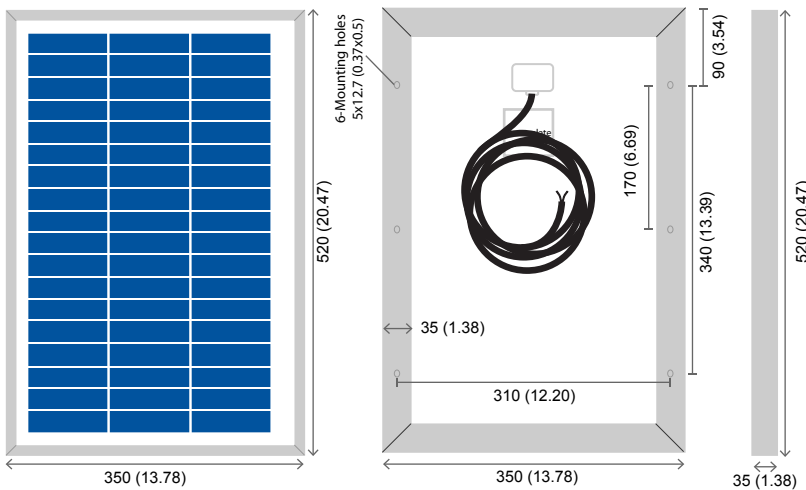


1. Values at Standard Test Conditions (STC): 1000W/m<sup>2</sup> irradiance, AM 1.5 solar spectrum and 25°C module temperature
2. Nominal Operation Cell Temperature: Module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C air temperature, 1m/s wind speed

### MECHANICAL CHARACTERISTICS

Output Cables	AWG#18(0.75mm <sup>2</sup> ) 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

