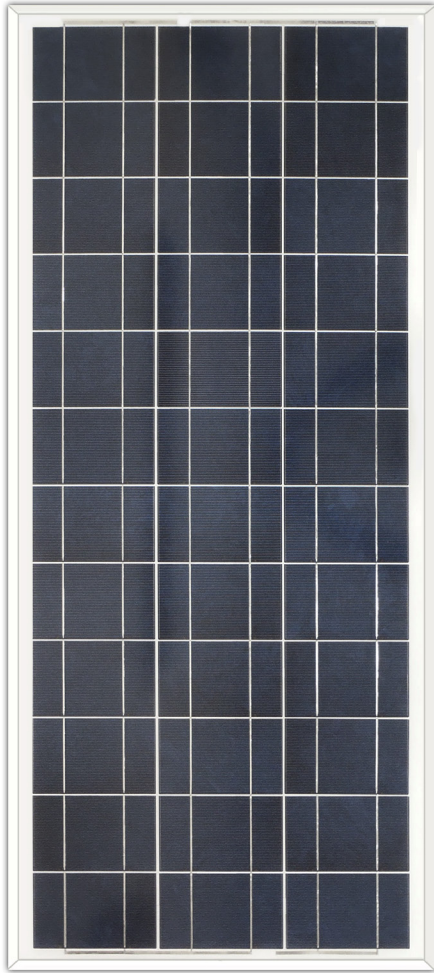


# VLS

Value  
Line  
Series

## Value Line Series (VLS) - 85W 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-85W 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> | 85W          |
| Tolerance ( $P_{max}$ )                    | ±5%          |
| Open circuit voltage ( $V_{oc}$ )          | 22.3V        |
| Maximum power voltage ( $V_{mp}$ )         | 18.0V        |
| Short circuit current ( $I_{sc}$ )         | 5.15A        |
| Maximum power current at ( $I_{mp}$ )      | 4.72A        |
| 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

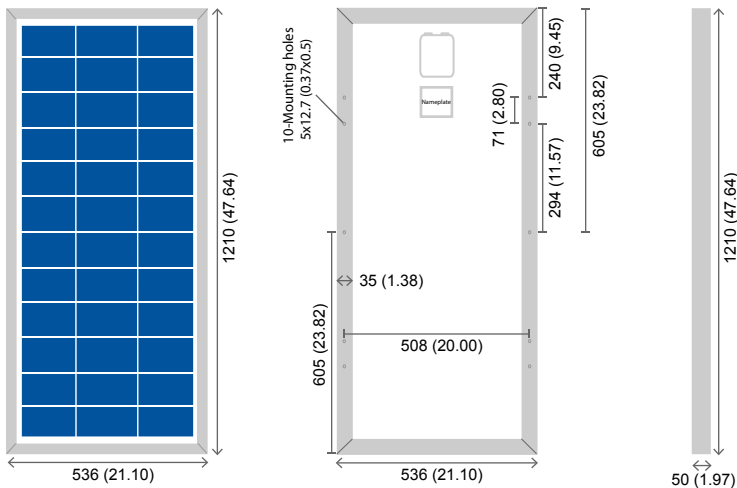


1. Values at Standard Test Conditions (STC): 1000W/m<sup>2</sup> irradiance, AM 1.5 solar spectrum and 25°C module temperature  
 2. Nominal Operation Cell Temperature: Module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C air temperature, 1m/s wind speed

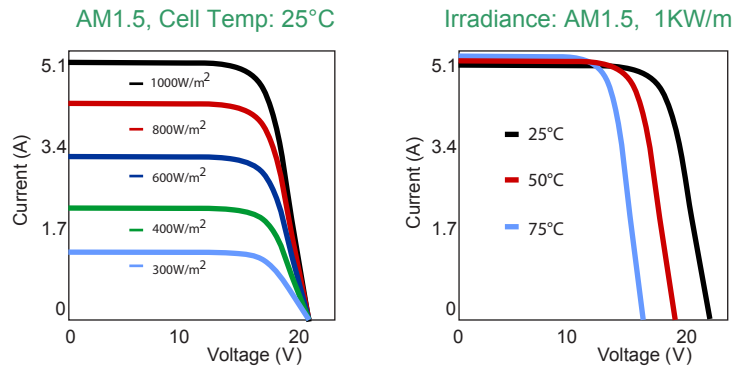
### MECHANICAL CHARACTERISTICS

|            |   |
|------------|---|
| Dimensions | 1210 × 536 × 50mm / 47.64 × 21.10 × 1.97 in |
| Weight     | 7.3kg / 16.1lbs                             |

### DIMENSIONS



### IV CURVES



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

Offered by Ameresco Solar | PH 1-855-43-SOLAR | www.amerescosolar.com