

# 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 CERTIFICATIONS**

Maximum power (P<sub>max</sub>)<sup>(1)</sup> 50W Tolerance (P<sub>max</sub>) ±5% Open circuit voltage (V<sub>oc</sub>) 22.3V Maximum power voltage (V<sub>mp</sub>) 18.0V Short circuit current (I<sub>sc</sub>) 3.03A Maximum power current at (I<sub>mp</sub>) 2.78A Maximum system (DC) voltage 80V

Operation temperature range -40°C - 85°C NOCT(2) 48±3°C Temperature coefficient of I 0.084%/°C Temperature coefficient of V<sub>oc</sub> -0.390%/°C

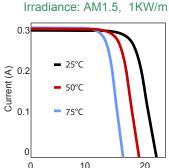
- 1. Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM 1.5 solar spectrum and 25°C module temperature
- 2. Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s

### **MECHANICAL CHARACTERISTICS**

833 × 536 × 50mm / 32.80 × 21.10 × 1.97in Dimensions

Weight 5.2kg / 11.5lbs

## **DIMENSIONS IV CURVES** AM1.5, Cell Temp: 25°C - 1000W/m 333 (32.80) 333 (32.80) Current (A) 600W/m<sup>2</sup> 35 (1.38) 508 (20.00) 300W/m<sup>2</sup> 0 10 Voltage (V) 50 (1.97) 536 (21.10) 536 (21.10)



Voltage (V)