VLS-T | Value Line Series

Value Line Series (VLS) Solar Modules

The Value Line Series (VLS) family of solar modules, offered by Ameresco Solar, is a reliable, rugged, and economical panel engineered for off-grid solar applications. The VLS-T line is designed and manufactured with quality materials and is available in 50, 90, 140, and 180 watts.
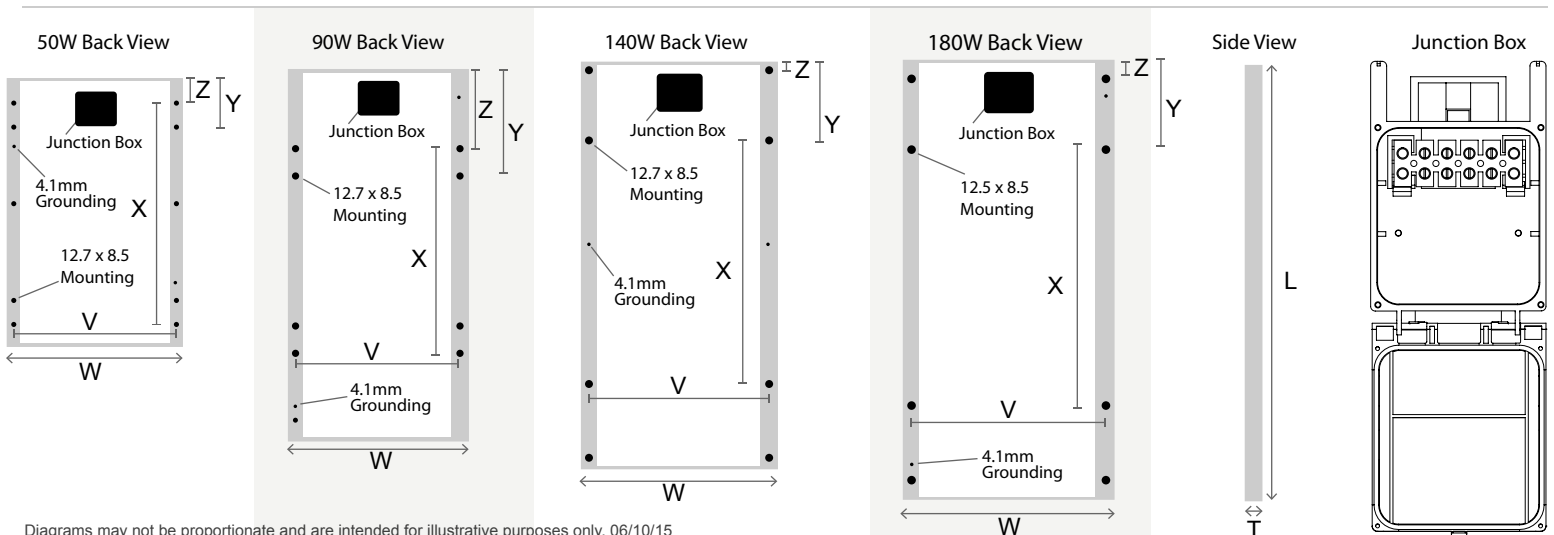
Electrical Characteristics

Model	VLS-50-T	VLS-90-T	VLS-140-T	VLS-180-T
Maximum Power (Pmax)	**50W**	**90W**	**140W**	**180W**
Optimum Operating Voltage (Vmp)	17.9	17.9	17.5	35.8
Optimum Operating Current (Imp)	2.79	5.03	8.0	5.03
Open Circuit Voltage (Voc)	22.1	22.1	22.0	43.6
Short Circuit Voltage (Isc)	2.9	5.21	8.2	5.48
Nominal Voltage (V)	12	12	12	24

Mechanical Characteristics

Dimensions (L x W x T) mm(in)	835x537x50(32.9x21.1x2)	1204x537x50(47.4x21.1x2)	1504x674x50(59.2x26.5x2)	1587x790x50(62.5x31.1x2)
Weight kg(lbs)	6.0(13.2)	7.7(17.0)	12.0(26.5)	15.0(33.0)
Cell Arrangement	36(4x9)	36(4x9)	36(4x9)	72(6X12)
Mounting Holes (Z) mm(in)	55(2.2)	235.5(9.3)	8(0.3)	NA
Mounting Holes (Y) mm(in)	127(5.0)	312.5(12.3)	301.5(11.9)	319(12.6)
Mounting Holes (X) mm(in)	581(22.9)	725(28.5)	901(35.5)	949(37.4)
Mounting Holes (V) mm(in)	502.5(19.8)	502.5(19.8)	639(25.2)	756(29.8)

Values at Standard Test Conditions (STC): 1000W/m2 irradiance, AM 1.5 solar spectrum and 25°C module temperature

Mounting Details

50W Back View — Junction Box, 4.1mm Grounding, 12.7 x 8.5 Mounting

90W Back View — Junction Box, 12.7 x 8.5 Mounting, 4.1mm Grounding

140W Back View — Junction Box, 12.7 x 8.5 Mounting, 4.1mm Grounding

180W Back View — Junction Box, 12.5 x 8.5 Mounting, 4.1mm Grounding

Side View

Junction Box

Diagrams may not be proportionate and are intended for illustrative purposes only. 06/10/15

Other Information

Junction Box: IP65 rated with terminal strip and knockouts | Cell Type: Mono/Poly crystalline silicon | Glass: Tempered 3.2mm
Back Cover: White polyester | Frame: Aluminum, silver anodized | Manufactured according to International Quality and Environment Management System (ISO9001, ISO14001)