

Morningstar String Calculator

String Sizing Tool Calculation results

PV Module: **Custom** -

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Morningstar Product: **SunSaver-MPPT-15L**

System Information

Minimum Battery Voltage	12.10	Vdc
Maximum Battery Voltage	14.10	Vdc
Record Low Temperature	-10.0	°C
Record High Temperature	25.0	°C

Configuration

1 Module in Series Per String

1 Strings in Parallel

1200 Watts Total

Maximum Nominal Solar Input Power exceeded for this controller. Controller output current will be limited, reducing power harvest below Maximum Power Point levels. Full output of array will not be realized. No risk of damage to controller in this configuration.

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PV Module Specifications

Module Name	Custom -	
Pmax	1200.00	W
Voc	39.70	V
Isc	38.80	A
Vmp	32.50	V
Imp	37.00	A
Voc coefficient	-0.111	%V/°C
NOCT	46.0	°C

Array Information

Minimum Voc (average high temp.)	38.55		
Max. Operating Voc (record low temp.)	40.10		
Max. Voc (record low Temp., morning)	41.24	< 78	Max. Vin
Minimum Vmp (average high temp.)	31.35	> 14.10	Vb Max.
Maximum Vmp (record low temp.)	32.90		
Isc (STC)	38.80		
Imp (STC)	37.00		

Morningstar Product Specifications

Product Name	SunSaver-MPPT-15L
Maximum Battery Current	15.00 A
Supported Nominal Battery Voltages	12V, 24V

Disclaimer: Morningstar makes no representation, warranty or assumption of liability regarding the use of the String Sizing Tool. This tool uses data provided by other parties (such as PV module specs) and makes calculations based on assumptions which may or may not prove to be valid.

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