

Morningstar String Calculator

String Sizing Tool Calculation results

PV Module: SolarWorld AG - Plus SW 260 275 mono black SW 275

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Morningstar Product: TriStar-MPPT-60-600V

System Information

Minimum Battery Voltage	49.00	Vdc
Maximum Battery Voltage	49.00	Vdc
Record Low Temperature	-21.5	°C
Record High Temperature	3.2	°C

Configuration

10 Modules in Series Per String
1 Strings in Parallel
2750 Watts Total
Optimal Configuration

PV Module Specifications

Module Name	SolarWorld AG - Plus SW 260 275 mono black SW 275	
Pmax	275.00	W
Voc	39.40	V
Isc	9.58	A
Vmp	31.00	V
Imp	8.94	A
Voc coefficient	-0.300	%V/°C
NOCT	48.0	°C

Array Information

Minimum Voc (average high temp.)	386.66		
Max. Operating Voc (record low temp.)	415.85		
Max. Voc (record low Temp., morning)	448.94	<	600 Max. Vin
Minimum Vmp (average high temp.)	302.66	>	49.00 Vb Max.
Maximum Vmp (record low temp.)	331.85		
Isc (STC)	9.58		
Imp (STC)	8.94		

Morningstar Product Specifications

Product Name	TriStar-MPPT-60-600V	
Maximum Battery Current	60.00	A
Supported Nominal Battery Voltages	24V, 36V, 48V, 60V	

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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8 Pheasant Run, Newtown, PA 18940 USA

+1-215-321-4457

info@morningstarcorp.com

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