

# Morningstar String Calculator

## String Sizing Tool Calculation results

PV Module: SolarWorld AG - Plus SW 265 280 mono SW 275

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Morningstar Product: TriStar-MPPT-60

### System Information

Minimum Battery Voltage	48.00	Vdc
Maximum Battery Voltage	48.00	Vdc
Record Low Temperature	-28.9	°C
Record High Temperature	37.8	°C

### Configuration

3 Modules in Series Per String

3 Strings in Parallel

2475 Watts Total

Optimal Configuration

### PV Module Specifications

Module Name	SolarWorld AG - Plus SW 265 280 mono 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	46.0	°C

### Array Information

Minimum Voc (average high temp.)	104.44		
Max. Operating Voc (record low temp.)	128.09		
Max. Voc (record low Temp., morning)	137.31	< 150	Max. Vin
Minimum Vmp (average high temp.)	79.24	> 48.00	Vb Max.
Maximum Vmp (record low temp.)	102.89		
Isc (STC)	28.74		
Imp (STC)	26.82		

### Morningstar Product Specifications

Product Name	TriStar-MPPT-60	
Maximum Battery Current	60.00	A
Supported Nominal Battery Voltages	12V, 24V, 36V, 48V	

**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.