



Classic Sizing Tool

PV Module Data

Power	340	Watts
VOC	46.2	Volts
VMP	37.9	Volts
ISC	9.48	Amps
IMP	8.97	Amps
VOC Temp Coef %	0.33	C
VMP Temp Coef %	0.45	Amps

Environmental Data

Coldest Ambient Temperature	0	F
Hottest Ambient Temperature	104	F
Nominal Battery Volts	12	Volts

PV Array

Number Of Modules In Series	4
Number Of Parallel Strings	1
Total Modules	4
Rated PV Array Power	1360 Watts
Anticipated Array Power @ 104 F	1268 Watts
Rated PV Array Current	8.97 Amps
Battery Charging Current @ 14.4V	94.4 Amps
VMP (Maximum Power Point Voltage)	151.6 Volts
VOC (Open Circuit Voltage)	184.8 Volts
VMP @ 0 F	180.8 Volts
VOC @ 0 F	210.8 Volts

Charge Controllers

	CLASSIC 150/LITE	CLASSIC 200/LITE	CLASSIC 250/LITE
Max Operating Voltage	150	200	250
Max None Operating VOC (HyperVOC) @ 48V Nominal Bat Voltage	162	212	262
Maximum Number Of Modules In Series Configuration	2	3	4
Max Number Of Modules In Series Using HyperVOC	3	4	4
Max Allowable Output Current Per Classic Based On This Current	92	73	61
Max Allowable Wattage Per Classic Based On This Configuration	1325	1050	878
Present PV Array Wattage Of This Configuration	1360	1360	1360

Design Check

Max VOC	TOO HIGH	MARGINAL (HyperVOC)	OK
Temp The Classic Enters HyperVOC	ALWAYS	32 F°	-115.6 F°
Array Power (Wattage)	EXCESSIVE	EXCESSIVE	EXCESSIVE
Classics Required	1.1	1.3	1.6

NOTE: MidNite Solar recommends a second controller be added after 1.2

WARNING: MidNite Solar makes no representation, warranty or assumption of liability regarding the use of the String Calculator. 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.