

## CLASSIC MPPT CHARGE CONTROLLER COMPARISON CHART

Manufacturer	MidNite	OutBack		Blue Sky	Xantrex	Morningstar	Apollo
Model	<sup>1</sup> Classic 150	FM60	FM80	3048DL	XWMPPT60	TSMPT60	TS80
Rated Amps	80 - 96	60	80	30	60	60	80
Max Operating Voltage	150	145	145	112	140	150	112
Max VOC	<sup>2</sup> 162, 175, 200	150	150	140	150	150	200
Max Battery Voltage	72	60	60	48	60	72	48
Solar	●	●	●	●	●	●	●
Wind	●						
Hydro	●	●	●				
List Price With Display	\$850	\$749	\$849	\$649	\$685	\$793	\$849
Cost Per Amp With Display	\$10.63	\$12.48	\$10.61	\$21.63	\$11.42	\$13.22	\$10.61
Digital Display	●	●	●	●	●	Option	●
Internet Ready	●	\$595 Option				●	\$398 Option
Ground Fault Detector	●				●		
Arc Fault Detector	●						
Graphical Display	●						
Free User Upgradable Firmware	●					●	
Multiple Display Support	<sup>3</sup> MNGP	<sup>4</sup> MATE	<sup>4</sup> MATE	SB50RD25	XW-SCP	TS-RM-2	<sup>5</sup> RD-Wired
Aux Output	2	1	1		1		2
Aux Input	1						
Sealed Or Vented Configurable	●						
Warranty (Years)	5	5	5	5	5	5	5
Oscilloscope Display	●						
Battery Status Meter							●
Substantially Made In USA	●	?	?	?			
Partial Shading Indicator	●						
Sunrise/Sunset Map Of World	●						
Bonus Amps Based On Voltage	●						
ModBus Communications	●				●	●	
External Shunt Input				●			
HyperVOC Extended VOC Limit	●						

<sup>1</sup> The Classic comes in four models, 150, 200, 250, and 250KS  
<sup>2</sup> This number is based on the max operating voltage of the unit plus nominal battery voltage.

<sup>3</sup> The Classic MNGP display and/or a secondary display can monitor many controllers. The MNGP display can be removed from the Classic and used remotely.  
<sup>4</sup> If more than one controller is used you must also add a hub 4 or hub 10.  
<sup>5</sup> Wireless remote and Internet available with additional purchases