



Solar Charge Controllers and Chargers Roundup: Analysis Vendors Reference Guide

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Charge controllers or regulators prevent the photovoltaic array from overcharging the batteries by limiting the current that flows into the batteries. When the batteries attain a set voltage, the controller disconnects the PV array, thus preventing overcharging. Controllers can also offer specific features such as pulse width modulation, temperature compensation, low voltage disconnects and remote reporting. In addition, Maximum Power Point Tracking controllers make sure that the maximum PV power possible is delivered.

Similarly, auxiliary battery chargers recharge batteries as quickly as possible without overcharging the batteries. As the voltage rises, battery chargers sense battery voltage and reduce the output current.

This Vendors Reference Guide presents vendors offering solar charger controllers and battery chargers. This quick guide allows you to check what products the vendors offer and then find specifications and purchasing information at the vendors' Web sites.

Data provided on the following pages is not exhaustive and does not include all the products and services available from each company. ConnectPress, Ltd. cannot guarantee the accuracy of this data. We suggest you contact the participating companies for details, particularly to confirm technical specifications.

Company	Product	Web Address
Apollo Solar	TurboCharger T80 Battery Charge Management System.	Visit www.apollo-solar.net for more information.
Blue Sky Energy LLC	Solar Boost Maximum Power Point Tracking (MPPT) Charge Controllers.	Visit www.blueskyenergyinc.com for more information.
Brunton	Solar controllers	Visit www.brunton.com for more information.
BZ Products Inc.	MPPT solar charge controllers; PWM and voltage converters; chargers.	Visit www.bzproducts.net for more information.
Carmanah Technologies Corp	Controllers	Visit www.carmanah.com for more information.
Eco Energy	SunSport Advanced Solar Chargers; rugged chargers for harsh environments.	Visit www.eco-energy.ca for more information.
ETA Engineering	PBR (Photovoltaic Battery Charge Regulator) 5, 9, 12, 18, 22, 32 and 44 amp models.	Visit www.etaengineering.com for more information.
Fire, Wind & Rain Technologies LLC	Power Advantage 302/304 Battery Charge Controllers	Visit www.firewindrain.com for more information.
Heliotrope PV	HPV-22B Charge Controllers; HPV-30DR MPPT Solar Charge Controllers for RVs.	Visit www.heliotrope-pv.com for more information.
ICP Solar	Charge controllers; solar chargers	Visit www.icpsolar.com for more information.
Leonics Co. Ltd.	SOLARCON solar charge controller series.	Visit www.leonics.com for more information.
Matrix Energy Inc.	Matrix MPPT Charge Controllers.	Visit www.matrixenergy.ca for more information.
Morningstar Corporation	TriStar, SunKeeper, ProStar, SunSaver, SunLight, SunGuard and SHS Solar Controllers.	Visit www.morningstarcorp.com for more information.

Company	Product	Web Address
Motech Instruments	PV 4830 True MPPT charger controllers.	Visit www.motechind.com for more information.
Outback Power	MX60 Maximum Power Point Tracking (MPPT) Controllers.	Visit www.ibe-inc.com for more information.
Panelectron Ltd	PSX, PSR and PSC solar charge controllers; chargers.	Visit www.panelectron.hu for more information.
Phocos	Solar and solar/wind charge regulators; system controllers.	Visit www.phocos.com for more information.
Pico Electronics Inc	Controllers; converters	Visit www.picoelectronics.com for more information.
Plasmatronics	Solar charge regulators	Visit www.plasmatronics.com.au for more information.
Sundaya	Charge controllers	Visit www.sundaya.com for more information.
SES Flexcharge USA	Ultra High Efficiency alternative energy system controllers.	Visit www.flexcharge.com for more information.
Specialty Concepts, Inc.	PV Charge Controllers	Visit www.specialtyconcepts.com for more information.
Steca Solar Electronics	Solar charge regulators	Visit www.stecasolar.com for more information.
SunWize Technologies Inc.	Sunwize charge regulators; SunWize-Steca controllers.	Visit www.sunwize.com for more information.
U.S. Battery Manufacturing Company	Deep-cycle batteries	Visit www.usbattery.com for more information.
Xantrex	Charge controllers	Visit www.xantrex.com for more information.