

BIOENNO POWER SOLAR SYSTEM GUIDE

PROCEDURE AND OVERVIEW FOR PORTABLE SOLAR SYSTEMS FOR OFF GRID APPLICATIONS



PART 1: Battery Type

Battery Type 1: Small Capacity PVC Wrap, has connectors attached, includes a 2.1x5.5mm Coaxial Plug for charging, PP45 Powerpoles for discharging, covers models from 3Ah-20Ah, attach your Solar Charge Controller to the Coaxial Plug and Load to the Powerpoles



Battery Type 2: ABS Sealed Hard Case, has either F2 Connectors or Screw Terminals, discharging and charging are done by the same terminal tab/post, covers models 3Ah – 300Ah, run two sets of cables from the terminals, one to the Solar Charge Controller and the other to your Load



Battery Type 3: Large Capacity PVC Wrap, has connectors attached, includes pp45 Powerpoles for Charging, SB50 Powerpoles for discharging, covers models 30Ah+, attach your Solar Charge Controller to the PP45 Powerpoles and Load to the SB50 Powerpoles*



*BLF-1260L uses a pair of SB120 Powerpoles in the same setup



PART 2: Solar Charge Controller

Solar Panel: Use the Solar Panel Terminals on the far left, use a Phillips Head Screwdriver to unscrew the terminals, take desired cable, strip off silicone sheathing to desired length, insert bare wire end into the terminals, tighten the terminals but do not over torque*

Battery: Use the Battery Terminals in the middle, use a Phillips Head Screwdriver to unscrew the terminals, take desired cable, strip off silicone sheathing to desired length, insert bare wire end into the terminals, tighten the terminals but do not over torque

Load: Attach directly to battery; do not use the Load Terminals on the far right

*Bioenno Power does not require a specific make, model or type of Solar Panel, but before attaching, please confirm that your Solar Panel is appropriately sized for your Battery and for your Load!



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PART 3: Wiring Sequence

Step 1: Attach your Battery to the Solar Charge Controller first, allow your Solar Charge Controller to start up, do not attach Load yet

Step 2: Attach your Solar Panel to your Solar Charge Controller, allow your Solar Charge Controller to begin regulating charge to the Battery, do not attach load before attaching Solar Panel

Step 3: Attach your Load to your Battery, begin discharge cycle, do not attach your Load to the Load Terminal, you may disregard the Load Terminal.



PART 4: What to Watch Out For

Do's: When using solar, always match your power supply to your load and how much you plan on consuming not the other way around and be sure to keep your panel clean. Be sure to connect your system in the right order and disconnect in reverse order. Before attaching or using any system, always double check your polarities.

Don'ts: Do not mix and match different sized Solar Panels and do not mix and match different sized Batteries – doing so may cause damage to your Batteries and/or Load and make sure not to mix and match different chemistry Batteries. Make sure to not expose bare wire or unguarded connector ends to water.

PART 5: Power Packs

Bioenno Power Packs are fully integrated. Simply attach Panel and discharge.

