

CHARGE CONTROLLER KITS

Charge Controller Kit #1

783-001 For both 12V and 24V systems \$199

This kit consists of a Trace C35 charge controller and a Trace CM meter set. The CM digital meter takes the place of the original C35 cover plate. This has what you need for a small cabin PV system or an RV system. The C35 can handle up to 35 amps at either 12 or 24 volts DC. The C35 has integral over current protection. If an over current condition is present, the C35 shuts down, and restarts automatically when the condition is removed. For added safety, a fuse should be added between the controller and the positive wire to the batteries. See page 32 for more information on the C35.



Charge Controller Kit #1:
C35 and CM Digital Meter

Charge Controller Kit #2

783-102 For both 12V and 24V systems \$259

This kit consists of a Trace C35 charge controller, a Trace CM meter set and a MidNite "Big Baby Box" with two circuit breakers. This kit is the same as Kit #1 with the breakers included for a main disconnect and array disconnect. There is room for two more circuit breakers for DC loads. The Big Baby Box also includes a negative bus-bar. You do the wiring.



Charge Controller Kit #2:
Big Baby Box and C35
+ CM Meter

Charge Controller Kit #3

Pre-wired with a C-Series Charge Controller and CM Meter

783-103 With C35 & CM 35A, 12V & 24V \$459

783-104 With C40 & CM 40A, 12V, 24V \$499

783-105 With C40 & CM 40A, 48V/L. Arrestor \$589

783-108 With C60 & CM 60A, 12V & 24V \$529

783-201 One Additional 15A DC Load Breaker add \$23

783-202 Two Additional 15A DC Load Breakers add \$36

783-203 Three Additional 15A DC Load Breakers add \$63

Most PV system buyers now take advantage of this option. For a small amount more than the individual components, you get a pre-wired set of controls. This kit consists of a C35, C40 or C60, a CM meter, an array disconnect, a controller disconnect, a lightning protector and a 10 foot, #6 ga. cable with lugs for battery connection. The circuit breakers and a terminal strip for the array input are pre-wired in a MidNite Solar Mini-Disconnect Panel, creating an integral and labeled unit. Just run the wires in from the solar modules and connect the 6 Ga. cable to the batteries and you are all set. Specify array size and we will size the circuit breaker for you (20A, 30A, 40A, 63A).

Up to three additional DC circuit breakers can be added to this assembly for DC load circuits. This makes the CC Kit #3 an ideal complete solution for DC wiring in a camp or cabin.



Charge Controller Kit #3: Exterior and Interior Views

Charge Controller Kit #4

Prewired with an MPPT Charge Controller

783-1 With MidNite Classic 150 Charge Controller 90A, 12V to 72V, NEC Compliant \$1099

783-114 With OutBack FM-60 60A, 12V to 60V \$989

783-116 With OutBack FM-80 80A, 12V to 60V \$1099

783-115 With Xantrex XW60 60A, 12V to 60V \$939

Charge Controller Kit #4 has an MPPT charge controller mounted on the door of a MidNite Mini-Disconnect panel. The controller disconnect is a DC circuit breaker breaker sized for the charge controller (60A to 90A). The array disconnect is also a DC circuit breaker sized for your array download. The breakers are labeled as to function and voltage. A 10' #4 or #6 AWG cable with lugs for connection to the battery bank is included. A MidNite Lightning Arrestor is also wired on the array input terminal strip. All wiring and circuit breakers are in place and ready to go. Just run the array cable in from the solar modules and connect the battery cable to the battery bank. CC Kit#4's can have one to three breakers added for DC loads.



Charge Controller Kit #4 with Classic 150

Note: In order for CC Kit #3 or CC Kit #4 to meet the National Electrical code, a ground fault interrupt breaker set must be added to the kit (except for the Classic 150). This would add \$69 to the kit price.