

## GP-CPV-220-40 SOLAR KIT

Suitable for  
12 & 24V  
Applications



GP-FLEX-110 x2

### GP-FLEX-220

Solar Flex™ solar panels are designed to provide a powerful charging solution for batteries. Unlike other 'thin' products, Solar Flex™ uses high-efficiency monocrystalline cells that produce more power per square foot than any other flat panel on the market. Built to withstand the harshest conditions.

- High-efficiency, back-contact solar cells
- Penetrating or adhesive mounting option
- Curves up to 30 degrees
- Durable surface is less than 1/8 in (3 mm) thick
- Industry standard quick-connect cables (MC4) work in series or in parallel
- Marine grade material
- Up to 82% lighter than other solar modules
- Solar output power limited warranty of 5 years



GP-MPPT-85/20

### GP-MPPT-85/20

The GP-MPPT-85/20 ensures maximum performance and yield from all types of PV systems year-round and in any environment.

The GP-MPPT-85/20 is an industrial Maximum Power Point Tracking (MPPT) charge controller featuring a robust, fully-sealed (IP68) housing that resists vibration as well as dust-, insect- and water ingress.

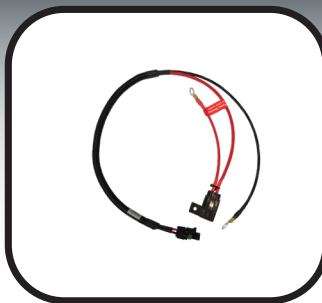
- IP68 rated waterproof protection with MC4 solar connections and Delphi battery connections
- Up to 98% power conversion efficiency
- Improved efficiencies provides up to 33% more output (up to 8.51 amps)

- 3-stage I/U curve sweep algorithm increases battery lifespan
- Anodized aluminum extrusion with built-in heat dissipation
- Fully encapsulated design prevents damage from water, corrosion, insects and/or dust
- Works with 12 or 24V battery systems (automatic battery voltage detection)
- Compatible with 60-cell modules
- Converts excess array voltage into additional charging current
- Allows up to 50% oversized array power for adding additional capacity in low-insolation months
- 5 year warranty

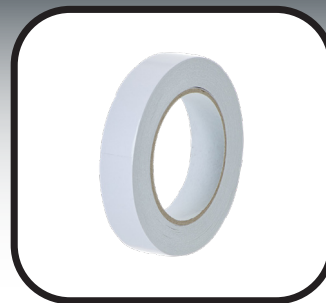
## CPV KITS INCLUDE:



Harness (40')



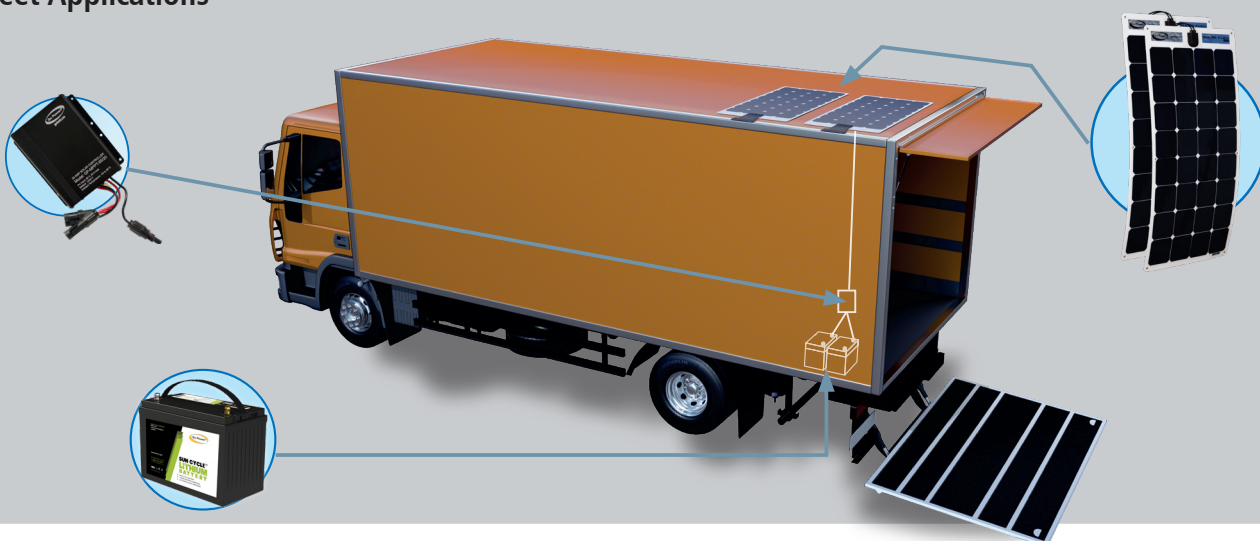
Harness (30')



2x 15' 4Evaseal Tape

## GP-CPV-220-40 SPECIFICATIONS

### Fleet Applications



#### GP-FLEX-110 SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Rated power (Pm)            | 110W   |
| Maximum power voltage (Vmp) | 17.6V  |
| Maximum power current (Imp) | 5.68A  |
| Open circuit voltage (Voc)  | 20.8V  |
| Short circuit current (Isc) | 6.14A  |
| Power coefficient           | -0.38% / °C  |
| Voltage coefficient         | -60.8mV / °C   |
| Current coefficient         | 2.2mA / °C   |
| Max power tolerance         | +/- 5%   |
| Cell type                   | Monocrystalline  |
| Solar cell efficiency       | 21%  |
| Series fuse rating          | 10A  |
| Maximum system voltage      | 600VDC   |
| Weight                      | 2.9 lb (1.35 kg)   |
| Dimensions                  | 44.6 x 21.4 x 0.1 in<br>1134 x 544 x 3 mm                        |
| Frame type / material       | Laminated TPT backsheet,<br>includes stainless steel<br>grommets |

30° max. recommended bend

#### GP-MPPT-85/20 SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Nominal System Voltage   | 12/24V  |
| Max Solar Array Current  | 20V   |
| Battery Voltage Range    | 9V - 15.5V (12V System)<br>18V - 31V (24V System)   |
| Max. Solar Panel Voltage | 85V   |
| Operating Consumption    | <10mA   |
| Temp. Compensation       | -25mV / K (12V systems)<br>-50mV / K (24V systems)  |
| Operating Temperature    | 40 to 140 °F (-40 to 60°C)  |
| Humidity                 | 99% N.C.  |
| Dimensions (HxWxD)       | 88.5 x 112 x 41.4mm (3.45 x 4.41 x 1.63in)  |
| Weight                   | 360g (1.38 lbs)   |
| Warranty                 | 5 years   |
| Safety Features          | Battery Reverse Polarity, Solar Array Reverse Polarity, Over temperature, Over Current, PV Short Circuit, Battery Short Circuit, Over Current |

Specifications may be subject to change. Product may not be exactly as shown.  
Specifications subject to local environmental conditions.

Power Specifications calculated at STC:

- Irradiance: 1000 W/m<sup>2</sup>
- Cell Temperature: 77 °F (25 °C)
- Air Mass: 1.5