



## Disconnect Combiners for First Solar Projects



ConnectPV Disconnect Combiner products are based on a core product architecture optimized for commercial and utility scale solar projects, simplifying design and specification. Options and accessories allow the designer to optimize the products for each project – reducing installation labor costs.

ConnectPV products incorporate “best-in-class” components combined with rugged mechanical designs to maximize reliability over the projected life of the project.

Compatible with NEC2014 Grounded or Floating Arrays - switching the ungrounded conductors, or NEC 2017 Functional Grounded Arrays - switching both ungrounded and grounded conductors.

### Standard Product Features

- 1000V and 1500V DC
- 100A, 200A, 250A, 320A, and 400A Manual Disconnects Available
- Lock-Out/Tag-Out on Disconnect Handle
- 4-36 Fused Inputs, #14-#4 AWG Cu Wire Range
- Individually Removable/Serviceable Touch Safe Fuse-holders
- 25A Fuse Typical for 8-string FS4 Harnesses
- 30A Fuse Typical for 7-string FS6 Harnesses
- M12 Studs provided for single or double hole lugs
- Accommodates 90C Cu/Al Mechanical or Compression Lugs
- Internal Safety Cover over all live components
- NEMA 4 and 4X Enclosures
- Padlock Latch for Door
- Condensate Drain
- Unique Serial number per unit
- Labelling to meet NEC Requirements

### Product Options

- Class 2 40kA Surge Protective Device
- Blown Fuse Indication Fuse Holders
- Mechanical Lugs Installed or Compression Lugs Included
- Breather Vents for High Humidity Locations
- H4 or MC4 Bulkhead or Whip Connectors Installed
- Upsized Enclosures for Larger Output Wires
- Unistrut Mounting Brackets Installed
- Extended Warranty



**Example of a 1500V 400A Combiner in NEMA 4X Enclosure with Unistrut and Heyco SolarMasthead Cordgrips**





## ConnectPV reduces electrical BOS project costs by simplifying:

### ► Configuration

Design Engineers easily configure our products to meet the project's requirements - *Simplifying design and specification*

### ► Installation

Field Installers quickly install our products because they provide ample wiring room - *Reducing installation time and labor cost*

### ► Regulation

AHJ Inspectors quickly review and approve our products because we have designed for 100% compliance with the NEC and UL Standards - *Reducing project inspection and approval time*

### ► Operation

O&M Personnel reduce field service time because our products use high quality components and are designed for a 20 year life expectancy - *Maximizing system revenue generation*

Sample Characteristics 8-String FS4 or 6-String FS6				1000V Systems		1500V Systems	
Input Circuits	Standard Disconnect Ampacity	Input Wire Size	Output Type	Grounded (inches)	Floating (inches)	Grounded (inches)	Floating (inches)
8	250	#14-#8 AWG Copper	M12 Studs	24x24x8	24x24x8	24x24x8	24x30x8
12	250			30x24x8	30x24x8	30x24x8	30x30x8
16	320						

\* Painted Stainless Steel NEMA 4X available

Standard Disconnects sized at 1.25x Sum(Isc) per UL1741.  
Upsize Disconnect available at 1.56x Sum(Isc) for OCPD coordination.

30" tall Combiners designed to accommodate up to 750MCM aluminum output conductor size per NEC Article 312, Table 312.6(B), with exception per Note 3

Model Numbers are derived from the following template: CBXVVT-###D(S)-FFAA-EE

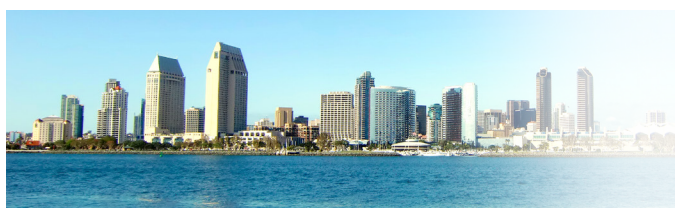
Specifications Subject to Change

VV Voltage	T Topology	### Disconnect Rating	FF String Count	AA Fuse Rating	EE Enclosure Type
10 = 1000V 15 = 1500V	G=Grounded F=Floating	100A, 200A, 250A 320A and 400A	04-36 2 string increments	1000V: 02-30A 1500V: 02-32A	N4 = Carbon Steel 4X = Fiberglass

Additional Options and Accessories Available

Stainless Steel Available

## ABOUT CONNECTPV INC.



Based in San Diego, CA, ConnectPV Inc. delivers expertise and experience. We bring over 10 years of Solar PV industry experience in electrical Balance of System products coupled with more than 25 years of high quality, ISO9001:2008 certified, manufacturing expertise. We actively work with our customers to deliver innovative, high quality, and cost effective solutions.