

# MNPV12 COMBINER



MidNite Solar offers a range of PV Combiners from our MNPV3 to the MNPV16. This range of combiners accommodates PV systems as small as a two string off grid cabin up to 16 strings for a 100KW commercial grid tie inverter. The MNPV series of combiners are the result of 20 years of design and manufacturing experience in the renewable energy industry. Each unit has the same quality features such as:

- \* Aluminum rainproof type 3R enclosure
- \* Internal plastic injection molded dead front covers
- \* Knock outs that accept waterproof strain reliefs, conduit or panel mount MC type connectors
- \* Knock outs for lightning arrestors
- \* Uses 150VDC & 300VDC breakers or 600VDC fuses depending on model number
- \* ETL listed to UL1741 for use in the US and Canada
- \* Adaptable for two separate inverters or charge controllers on certain models

**MNPV12** (For 150 VDC charge controllers and 600 VDC grid-tie inverters) Gray aluminum type 3R rainproof enclosure with insulating dead front, will accept 12 150VDC breakers or ten 600/1000VDC fuse holders. Includes 15 position PV negative bus bar, 15 position ground bus bar, and two 200 amp Plus bus bars for breakers or fuses. Plus busbars can be combined or separated to support 2 grid tie inverters or two charge controllers. Charge Controllers and Gridtie inverters can typically have a common PV minus. The exception is the XW and BlueSky.

Snap in adapters are included for use with fuse holders for a professional fit and finish.

Breakers/fuse holders sold separately. v

Boxed size: 16 x 14 x 5 Weight: 8 Lbs.



MNPV12  
Configured for  
600VDC Fuses  
(Gridtie)



MNPV12-250  
Configured for  
150VDC breakers

***Made in the  
USA!***

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|             |         |                      | PV Source Circuits   |         |                | PV Output Circuits    |                        |                |                               |                          |         |
|-------------|---------|----------------------|----------------------|---------|----------------|-----------------------|------------------------|----------------|-------------------------------|--------------------------|---------|
| Model       | Max VDC | Max # of Input Circ. | Max OCPD Rating Amps | OCPD    | Wire Range AWG | Max # of Output Circ. | Max Cont. Current Amps | Wire Range AWG | Approved Mounting Orientation | Enclosure Type/ Material | Listing |
| MNPV3 (LV)  | 150     | 3                    | 20                   | CB 150V | 14-6           | 1                     | 60                     | 14-1/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV3 (HV)  | 600     | 2                    | 20                   | FUSE    | 14-6           | 1                     | 60                     | 14-1/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV6 (LV)  | 150     | 6                    | 20                   | CB 150V | 14-6           | 2                     | 120                    | 14-1/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV6 (HV)  | 600     | 4                    | 20                   | FUSE    | 14-6           | 2                     | 80                     | 14-1/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV12 (LV) | 150     | 12                   | 30                   | CB 150V | 14-6           | 2                     | 200                    | 14-2/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV12 (HV) | 600     | 10                   | 30                   | FUSE    | 14-6           | 2                     | 200                    | 14-2/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV12-250  | 300     | 6                    | 50                   | CB 300V | 14-6           | 2                     | 168                    | 14-2/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV16 (HV) | 600     | 16                   | 15                   | FUSE    | 14-6           | 1                     | 240                    | 250MCM         | 90 to 14°                     | 3R/Alum                  | UL1741  |
| MNPV16-250  | 300     | 12                   | 20                   | CB 300V | 14-6           | 1                     | 240                    | 14-2/0         | 90 to 14°                     | 3R/Alum                  | UL1741  |

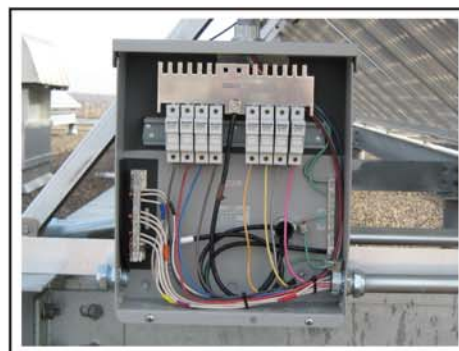
NOTE: All of the connections have a 90 deg C rating except the 2/0 positive lug that carries a 70 deg C rating. MidNite can supply 1/0 lugs to substitute in these cases where 90 deg C is required.



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(Gridtie)



MNPV12  
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MNPV12 installation  
Photo by Darryl Thayer

Breakers/fuse holders sold separately



ETL Listed for US & Canada