



# MNPV Combiners

## M I D N I T E S O L A R

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



## MNPV 12



Configured for 600VDC Fuses (Gridtie)



Configured for 150VDC Breakers (Offgrid)



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# PV Combiner: MNPV12

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

MNPV12 (For 150 VDC charge controllers and 600 VDC gridtie 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 can 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.

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



Configured for 600VDC Fuses (Gridtie)

Configured for 150VDC Breakers (Offgrid)



MNPV12 installation  
Photo by Darryl Thayer



ETL Listed for US & Canada



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