

MIDNITE SOLAR

# The Disco Combiners

MidNite Solar has 4, 6, 8 and 16 string Disconnecting PV Combiners. The MNPV8HV and MNPV16HV can be re-configured in the field to be used with non-isolated inverters where both the Positive and Negative need to be disconnected. This also allows these to be used to combine and disconnect two arrays feeding two separate isolated inverters. Our Disconnecting and Standard Pre-Wired Combiners are Plug and Play, saving both time and money in the field.

The 2014 NEC 690.12 code requires a Rapid Shutdown system for solar arrays. MidNite Solar's Rapid Shutdown system, which includes MidNite's disconnecting combiners, meet this requirement.

The Birdhouse control panel for MidNite's Rapid Shutdown system provides a safe means to disconnect high voltage PV arrays as well as battery and PV power on battery based systems when used with our MidNite Battery Disconnect Module.

***MidNite Solar, America's #1  
Array Combiner Manufacturer!***

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**SHOWN ABOVE  
Six String 125 Amp/600V  
Disconnecting Combiner  
Model: MNPV6HV**



**Pre-wired Disconnecting PV  
Combiner - MNPV6HV-MC4**



# MidNite Solar Disconnecting Combiner Specifications

Model Num	MNPV4HV 3R Basic	MNPV4HV 3R Deluxe	MNPV6HV 4X	MNPV8HV 4X Or 3R	MNPV16HV 4X
Strings	4	4	6	8-Single inverter 4 each for dual inv. 4-transformerless inv.	16-Single inverter 8 each for dual inv. 8-transformerless inv.
Maximum Volts	600	600	600	600	600
Birdhouse Optional PV Power Supply (MNDiscoPSB)	NO	YES	YES	YES	YES
*Surge Protection Device Included	NO	SPD600	SPD600	SPD600	SPD600
Fuses/Fuseholders	NOT PROVIDED	PROVIDED	PROVIDED	PROVIDED	PROVIDED
Deadfront	YES	YES	YES	YES	YES
Lug Temperature Rating	90° C	90° C	90° C	90° C	90° C
Strain Reliefs & Hole Plugs Provided	NO	YES	YES	YES	YES
**Convertible Configuration	NO	NO	NO	YES	YES
Enclosure Rating	Nema 3R	Nema 3R	Nema 4X	Nema 4X or 3R	Nema 4X
Enclosure - Powder coated aluminum with stainless hardware	YES	YES	YES	YES	YES
Maximum Number of Switched Output Circuits	ONE	ONE	ONE	TWO	TWO
Wire range for String Input	14 to 6 AWG (1.63mm to 4.11mm)	14 to 6 AWG (1.63mm to 4.11mm)	14 to 6 AWG (1.63mm to 4.11mm)	14 to 6 AWG (1.63mm to 4.11mm)	14 to 6 AWG (1.63mm to 4.11mm)
Maximum String Fuse Rating	30 amp	30 amp	30 amps	30 amps	30 amps
Output Switch Rating	100 amp switch 80 amp busbar	100 amp switch 80 amp busbar	100 amp switch 100 amp busbar	175 amps - single 8 string 100 amps each - 2 inverters 100 amps - transformerless inverter	175 amps - single 16 string, 100 amps each - 2 inverters 100 amps - transformerless
Output Wire Range	14 to 1/0 (1.63mm to 8.25mm)	14 to 1/0 (1.63mm to 8.25mm)	14 to 2/O AWG (1.63mm to 9.27mm)	14 to 2/O AWG (1.63mm to 9.27mm)	14 to 350mcm
Lockable	YES	YES	YES	YES	YES
Rating	UL1741	UL1741	UL1741	UL1741	UL1741
Mounting Options and Angle	Vertical wall mount, pole mount or sloped roof mount to 14 degrees incline (3 in 12 roof pitch)	Vertical wall mount, pole mount or sloped roof mount to 14 degrees incline (3 in 12 roof pitch)	Vertical wall mount, pole mount or sloped roof - Any angle	Vertical wall mount, pole mount or sloped roof NEMA 3R = mount to 14 degrees incline (3 in 12 roof pitch), NEMA 4X = Any angle	Vertical wall mount, pole mount or sloped roof NEMA 4X = Any angle

\*Models with Surge Protection (SPD) are shipped with only one SPD. We suggest that with some of the configurations of the configurable combiners multiple SPD's be used.

\*\*Convertible Configurations can be combined for: All strings in parallel or be separated for use with 2 inverters or be separated for use with non-isolated inverters