

MIDNITE SOLAR'S Emergency Rapid Shutdown System

MidNite Solar offers a complete Rapid Shutdown System with audio and visual communications!

The MidNite Emergency Rapid Shutdown System is a firefighter/home owner's control system designed specifically for disconnecting rooftop PV panels at ground level. In case of emergencies or system maintenance, the press of a big red button disconnects inherently hazardous voltages from the PV array down stream.

The central component of the system, the Birdhouse, works in conjunction with MidNite Solar's disconnecting combiners, shunt trip circuit breakers, cat5 cable, 4 pole disconnecting enclosures, battery disconnect module and power supply board. It's designed to be mounted within 500 meters of the combiner and located near rooftop access points such as doors and ladders.

The Birdhouse's LEDs display the system status and automated speech gives further situation specific instructions. The Birdhouse has an attractive weather resistant enclosure made of anodized aluminum and high density plastic.

Firefighters and emergency personnel love MidNite's Rapid Shutdown System!



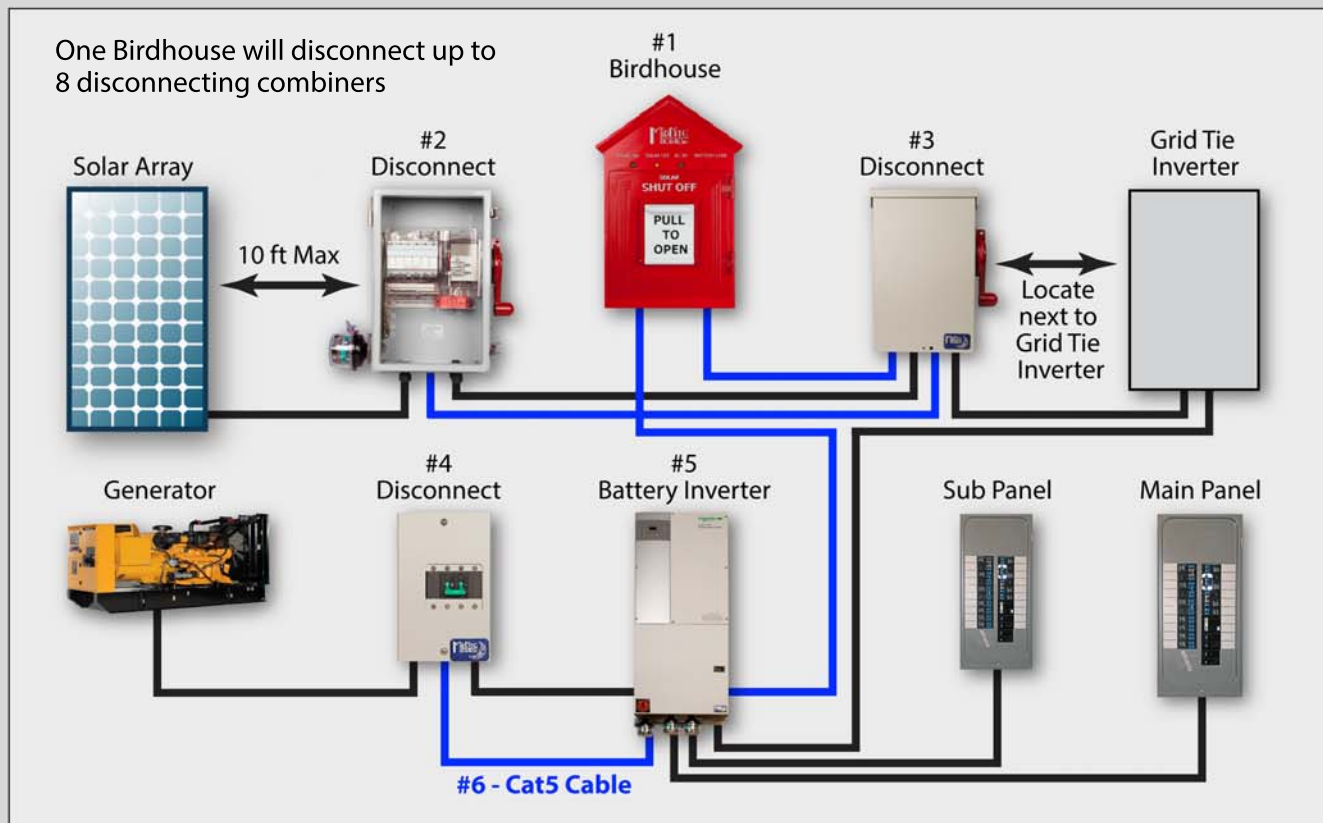
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MADE IN THE USA

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10-211-1

COMPLETE EMERGENCY RAPID SHUTDOWN SYSTEM



NEC 690.12 Rapid Shutdown Diagram Key

#1 Emergency Shutoff Switch

MNBirdhouse, this is the original birdhouse made to trip Carling Switches

#2 Available Disconnecting Combiners:

MNPV4HV-Disco 3R Basic and Deluxe - MNDiscoPSB (power supply board required)
 MNPV6HV-Disco NEMA 4X - MNDiscoPSB (power supply board required)
 MNPV8HV-Disco Nema 3R - MNDiscoPSB (power supply board required)
 MNPV8HV-Disco Nema 4X - MNDiscoPSB (power supply board required)
 MNPV16HV-Disco Nema 4X - MNDiscoPSB (power supply board required)
 MNPVHV8-DLTL - MNDiscoPSB (power supply board required)
 MNPVHV16-DLTL - MNDiscoPSB (power supply board required)
 MNSOB4X-2P, MNSOB3R-2P, MNSOB3R-4P or MNSOB4X-4P

#3 Available Disconnects

MNSOB4X-2P, MNSOB3R-2P, MNSOB3R-4P or MNSOB4X-4P

#4 Disconnect

MNDC-GFP-100 –dual breaker mounted in MNEDC-Quad Box

#5 Battery Inverter

MidNite E-Panel with MNBDM (Battery Disconnect Module) and shunt trip breakers. MNBDM and MidNite's shunt trip breakers can shut down any battery based inverter. All MidNite E-Panels accommodate the MNBDM and shunt trip breakers (125, 175 and 250 amp/125VDC).

#6 Cabling

MNCAT5-600 - 600V 90°C USE2 Rated, UL Listed Cat5 Cable

Available Breakers

MNEDC125, MNEDC175, MNEDC250, MNDC-GFP100-Dual, MNEPV16-600 and MNEPV20-600 Breakers

