

SPS-COM:4231

Maple Leaf
Surge Protection/Combiner box



Powerfull Hybrid Solution

The solar panel combiner box is an essential component of solar power systems, either connected to the grid or running independently. Its durable shell can endure rain, pressure, and flames, guaranteeing dependable performance throughout harsh environments. This combination box emphasizes safety by including separate fuses, high-voltage arresters, a 1000V DC switch and 600V DC breakers, including overvoltage and overcurrent safety features. This high-voltage arresters not just safeguard against lightning but additionally have great current-limiting capacity, which improves the system's dependability and longevity.

Simple wiring allows for quick installation on any conventional surface. Its universal compatibility with different solar panel brands provides a smooth integration. It supports 12V, 24V, and 48V systems, allowing for a variety of photovoltaic array layouts. In essence, the Solar Panel Combiner Box maintains the safety and effective operation of solar power systems, providing users confidence in their renewable energy setups.

Warranty



**Material and
Workmanship
Warranty**

Key Features



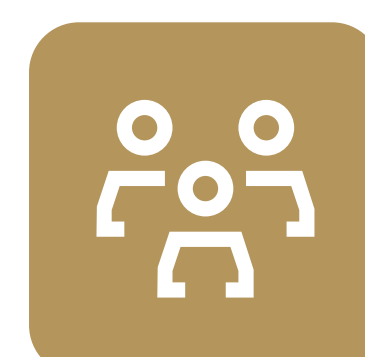
Surge Protection:

afeguard your entire system from damaging power surges or "spikes" caused by lightning, appliance operations, wiring issues, or utility problems



Durable Shell

robust shell designed to withstand various environmental challenges, including rain, pressure, and flames



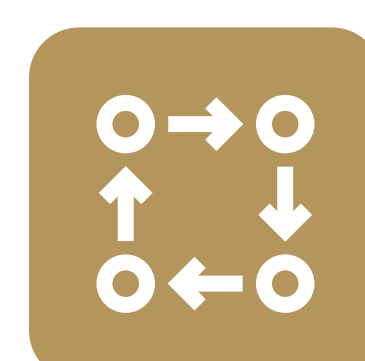
Universal Compatibility

Compatible with a wide range of solar panel brands, facilitating seamless integration into existing systems



Safety Emphasis

high-voltage arresters, and a DC circuit breaker equipped with overvoltage and overcurrent protection, safety is paramount in this combiner box.



Simple Installation

simple wiring design, installing the combiner box on any conventional surface is quick and straightforward.



Support for Multiple Systems

Supporting 12V, 24V, and 48V systems, the combiner box accommodates various photovoltaic array layouts

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General

Dimensions(W * H *D)	180*450*400mm/7*17.7*15.75inch
Weight	15kg/33lbs
Ingress protection rating	IP 65
Operating environment temperature range	-45-60°C
Warranty	10 years
Cooling method	vents

Protection

PV reverse polarity protection	YES
Over current/voltage protection	YES
DC Short-circuit protection	YES
Leakage current protecion	YES
DC switch	YES
Rapid shut down	Optional
Grid/AFCI/RSD monitoring	Optional

INPUT (PV DC)

Rated PV input voltage(V)	600
Base Model PV Inputs	2 x 16A
Max Number of independent MPPT inputs	3 x 16A or 2 x 20A
PV input voltage range(V)	600V
Max input current each String	20A@2 strings & 16A @ 3 strings
Max Discharge Current of SPD	40kA
SCCR	5kA
Max. PV short-circuit current input per MPPT(A)	44/44

OUTPUT (PV DC)

Rated PV input voltage(V)	1000
Base Model PV Inputs	2 x 16A
Max Number of independent MPPT inputs	3 x 16A or 2 x 20A
PV input voltage range(V)	1000V
Max output current each String	20A@2 strings & 16A @ 3 strings
Max total current	45A @ 100V

Standards & Certification

Field inspeted 22.2



*** The information and measurements in this datasheet have been assessed under Standard Test Conditions, so there may be slight differences from real-world findings. Maple Leaf and its associated entities retain the right to change the information given within this datasheet without prior notice. Our goal is to provide clients with the most recent product information. You can find these datasheets in the downloading section of our product description.

