

Multicluster Box for SUNNY ISLAND 4548-US and 6048-US



MCB-12U



IMAGE FOR ILLUSTRATIVE PURPOSES ONLY



Flexible

- Integrated AC distribution for Sunny Island, generator and PV systems
- Can accommodate various generator, PV and load sizes
- For systems up to 100 kW

Simple

- Load shedding, Sunny Island and generator contactors and circuit breakers
- Circuit breaker for PV system

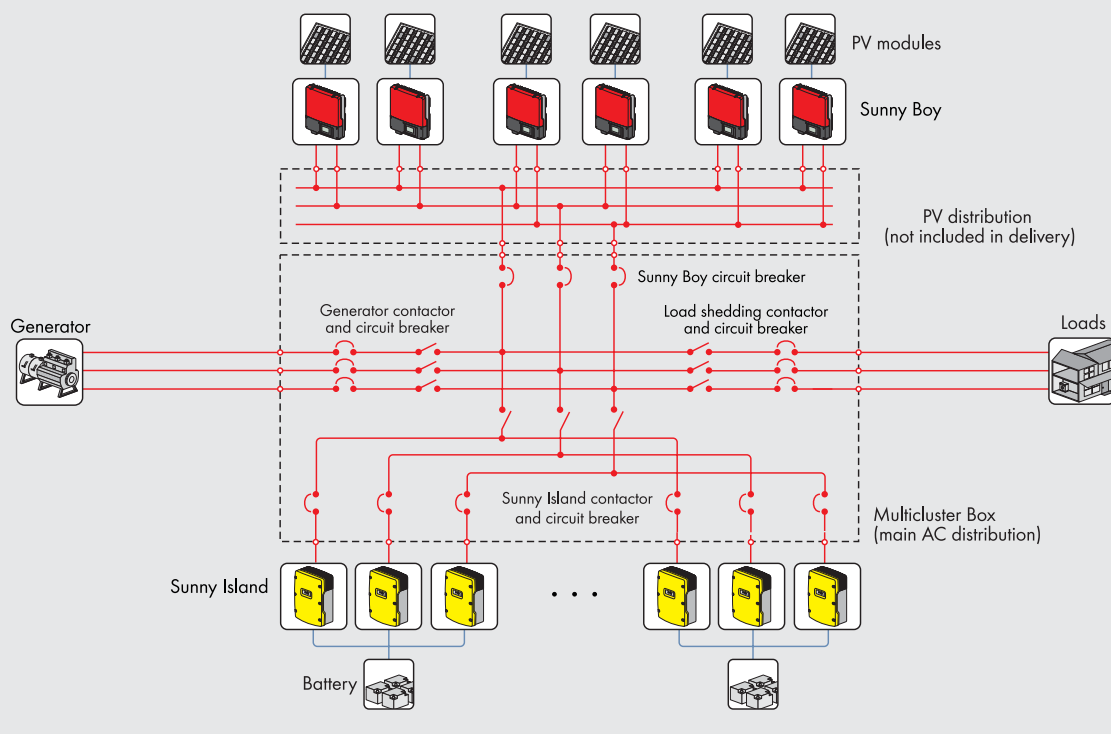
Enhanced Safety

- Reverse current monitoring
- Simple emergency operation of the generator

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Simple design of large off-grid systems

The Multicluster Box for the Sunny Island 4548-US and 6048-US is the ideal solution for the easy installation of off-grid systems up to 100 kW. Two to four three-phase clusters, each with three Sunny Islands, can be connected in parallel. The Multicluster Box is pre-wired for operation and equipped with a main connection for PV or wind energy systems. The communication cables necessary for installation are also included.



| Technical Data | Multicenter-Box 12U |
|---|--------------------------------------|
| General | |
| Number of phases | 3-phase |
| Nominal voltage | 3 x 120 V / 208 V |
| Voltage range | 105 - 132 V / 181 - 229 V |
| Nominal frequency / range | 60 Hz / 55 Hz ... 65 Hz |
| Dimensions (W / H / D) | 48 / 65 / 14 in (122 / 165 / 36 cm) |
| Mounting type | standing on base |
| Weight | approx. 485 lbs (220 kg) |
| Connections for Sunny Island | |
| Number | 12 |
| Continuous AC output at 77 °F (25 °C) | up to 72 kW |
| AC output for 30 min. / 1 min. | 80 kW / 100 kW |
| Nominal AC current at 77 °F (25 °C) | 3 x 167 A |
| Connections for PV system | |
| Number | 1 x 3-phase |
| Nominal AC power / AC current | 110 kW / 3 x 300 A |
| Load connection | |
| Number | 1 x 3-phase |
| Nominal power / current | 110 kW / 3 x 300 A |
| Generator connection | |
| Number | 1 x 3-phase |
| Nominal power / current | 110 kW / 3 x 300 A |
| Ambient conditions | |
| Ambient temperature | -25 °C to +60 °C (-13 °F to +122 °F) |
| Enclosure rating | NEMA 12 |
| Certifications and permits | UL 508A |
| Accessories | |
| Communication cable | 4 x 5 m FTP Cat 5e |
| Multicenter Piggy-Back | ○ |
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| ● Standard features ○ Optional features – Not available | |
| Last update: September 2013 | |
| Type designation | MCB-12U |

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