



SolShare 100 Product Datasheet

Allume's SolShare is the world's first power division control system (PDCS). A behind-the-meter hardware solution that allows multiple grid-connected meters to be fed from the inverter output of one solar electric system. The SolShare opens the solar market to multifamily buildings.

The SolShare 100 has a maximum input and output capacity of 16.4kW AC, and can be interconnected with up to 10 meters, making it primarily suitable for multifamily residential sites.

The behind-the-meter solution requires no change to smart meter infrastructure and is intuitively designed to make the installation process as simple as possible for solar installers.

The SolShare unit is installed between the inverter and each participating multifamily unit's feeder tap.

The SolShare receives the output of any single phase, 240V solar inverter and provides that power to each connected meter's unit.

This interconnection is made as a load-side tap on each unit's feeder conductors at a central location, such as the meter stack/bank.



Multi-meter solar delivery



Complete solar & usage monitoring



Suitable for environments with Net Metering (NEM)



Ongoing Wi-Fi Connection required for datalogging and firmware updates

Technical Data

General Specifications

Parameter	Value
Dimensions	19.1" x 36.2" x 10.6" (W x H x D)
Weight	84 lbs.
Max number of connections per SolShare	Up to 10 (connected at 120V) or up to 5 (connected at 240V)
Install Environment	Type 4 (outdoor*)
Operating temperature range	- 40°F (- 40°C) to 122°F (50°C)
Metering accuracy of each SolShare output	± 0.5%
Communication	Wi-Fi Only, 2.4GHz

Electrical Specifications

Parameter	Value (at 25°C)
Max input and output nominal current (per output)	72 A (240 VAC)
Voltage Range	228 – 252 VAC (L-L); 114 – 126VAC (L-N)
Max AC input and output power at 120V (L-N) / 240V (L-L)	16.4 kW AC
Number of input circuits	1
Number of output circuits	10
Mains frequency range	50 – 60 Hz
Short-circuit current rating	30 kA
AC short circuit protection	Yes
Terminal conductor size for field wiring	2 AWG Cu - 8AWG Cu

Safety Certification

Compliance
UL1741, FCC Part 15 Class B

Accessories

20 x Current Transformers (10 meter cable lengths)

Installation Requirements

1. Input must come from a single phase, grid connected inverter
2. Each interconnected feeder conductor must have an amperage capacity greater than the per line max solar system output
3. Output connection minimum: Minimum output connections to power the SolShare: 1(L1) and 2(L2)
4. Meter bank/co-located smart meters and main switches
5. Conductor access between SolShare unit and central main switchboard
6. Installation must be carried out by a qualified person who has also completed the Allume SolShare training modules
7. System shall be installed in compliance with local codes and standards
8. *Outdoor rated, not in direct sunlight



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