

SUNNY CENTRAL STRING-MONITOR US

SSM-US



Efficient

- Optimum fault recognition for high yields
- Reduced system costs through use of up to nine devices per Sunny Central inverter

Precise

- NEMA 3R DC distributor box with integrated current measurement

Flexible

- Three models for the best possible system design
- Optionally suitable for use near the coast

Straightforward

- Removable floor and side plates allow for easy mounting
- Simple configuration of string current monitoring

SUNNY CENTRAL STRING-MONITOR US

Accurate monitoring for large North American systems ensures high yields

Detailed string cluster monitoring: the Sunny Central String-Monitor US. By measuring and comparing individual string currents, power deviations in the solar array are reliably detected and analyzed in the Sunny Central. The Sunny Central String-Monitor US is available in three models, each with varying NEC-compliant string fuse protection, making the Sunny Central String-Monitor US well suited for all panel types in the North American solar market.

Technical Data

	Sunny Central String-Monitor US Version 24	Sunny Central String-Monitor US Version 32	Sunny Central String-Monitor US Version 64
PV generator connection			
Input voltage range	0 ... 600 V DC	0 ... 600 V DC	0 ... 600 V DC
Max fuse size (10 x 38 class CC fuses)	20 A, 600 V DC ¹⁾	15 A, 600 V DC ¹⁾	8 A, 600 V DC ¹⁾
Max. PV short-circuit current per string	12.8 A ²⁾	9.6 A ²⁾	5.1 A ²⁾
Max. number of strings	24	32	64
Fused inputs per measuring channel	3	4	8
PV array configuration	neg. or pos. grounded	neg. or pos. grounded	neg. or pos. grounded
Number of measuring channels	8	8	8
Sunny Central Connection			
DC short-circuit current	480 A	480 A	512 A
Max. operating output current, ADC, continuous	308 A	308 A	328 A
Max. number of cables per output port	2	2	2
Mechanical Data			
Dimensions: W x H x D in inches	31.5 x 31.5 x 9.8	31.5 x 31.5 x 9.8	31.5 x 47.2 x 11.8
Weight	143 lbs	146 lbs	194 lbs
Protection rating	NEMA 3R	NEMA 3R	NEMA 3R
Housing material	Steel or Aluminum	Steel or Aluminum	Steel or Aluminum
Ambient conditions			
Permissible ambient temperatures	-13 °F to 113 °F	-13 °F to 113 °F	-13 °F to 113 °F
Rel. humidity	up to 95%, condensation possible	up to 95%, condensation possible	up to 95%, condensation possible
Communication			
Connection SSM-US	RS485	RS485	RS485
1) These values indicate input current without the derating factor of NEC articles 690.8(A)(1) and 690.8 (B)(1) applied.			
2) These values indicate input current with the derating factor of NEC articles 690.8(A)(1) and 690.8 (B)(1) applied.			
Type designation	SSM-US	SSM-US	SSM-US

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SSM-US Version 32, Negative Grounded

