

Certificate

of Compatibility for the following BRC Solar optimizers

Power Optimizer M500 Power Optimizer M600-E Power Optimizer M600-M

with the inverters from Sungrow Power Supply Co., Ltd.

Please refer to the next page to find the exact inverter models.

There, you can see which models are approved for full compatibility and which are approved for partial compatibility.

To confirm trouble-free operation, standardized compatibility tests were carried out. These are repeated at regular intervals with the inverter manufacturers' most current product portfolio to ensure compatibility.

We hereby confirm that the tests were carried out without issues according to the standardized test procedure.

BRC Solar GmbH	BRC Solar GmbH
Pascal Ruisinger, Managing Director	Richard Brace, Head of Innovation & Research
P.R	22
Signature, date	Signature, date

Compatibility M500 & Sungrow

Full optimization possible

Partial optimization only (max. 50% of modules)

No Compatibility

Туре	MPP1 (A)	MPP2 (A)	MPP3 (A)	MPP4 (A)	MPP5 (A)	MPP6 (A)	MPP7	MPP8	MPP9	MPP10
SG15KTL-M	15	15	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
SG20KTL-M	15	15								
SG10KTL-M	22	22								
SG12KTL-M	22	22								
SG5KTL-MT	22	22								
SG6KTL-MT	22	22								
SG8KTL-M	22	22								
SG2K-S	10									
SG2K5-S	10									
SG3K-S	10									
SG125HV	25	25	25	25	25	25	25	25	25	
SG250HX	30	30	30	30	30	30	30	30	30	30
SG5.0RT	25	25			- 00	- 00	- 50	50	30	30
SG6.0RT	25	25								
SG7.0RT	25	12,5								
SG8.0RT	25	12,5								
SG10RT	25	12,5								
SG12RT	25	12,5								
SG15RT	30	30								
SG17RT	30	30								
SG20RT	30	30								
SG350HX	40	40	40	40	40	40	40	40	40	40
SG33CX-V112	26	26	26				-10	40	40	40
SG40CX-V112	26	26	26	26						
SG50CX-V112	26	26	26	26	26					
SG110CX-V11	26	26	26	26	26	26	26	26	26	
SG25CX-P2*	30	30	30						20	
SG30CX-P2*	30	30	30							
SG36CX-P2*	30	30	30	30						
SG40CX-P2*	30	30	30	30						
SG110CX-V112	26	26	26	26	26	26	26	26	26	
SG33CX-P2	30	30	30				20	20	20	
SG50CX-P2	30	30	30	30						
SG125CX-P2	30	30	30	30	30	30	30	30	30	

Compatibility M600-E & Sungrow

Full optimization possible
Partial optimization only (max. 50% of modules)
No Compatibility

Туре	MPP1 (A)	MPP2 (A)	MPP3 (A)	MPP4 (A)	MPP5 (A)	MPP6 (A)	MPP7 (A)	MPP8 (A)	MPP9 (A)	MPP10 (A)
SG15KTL-M	15	15		1.77	V-1	(4)	(A)	(14)	(^)	(^)
SG20KTL-M	15	15								
SG10KTL-M	22	22								
SG12KTL-M	22	22								
SG5KTL-MT	22	22								
SG6KTL-MT	22	22								
SG8KTL-M	22	22								
SG2K-S	10									
SG2K5-S	10									
SG3K-S	10					-				
SG125HV	25	25	25	25	25	25	25	25	25	
SG250HX	30	30	30	30	30	30	30	30	30	30
SG5.0RT	25	25						- 00	- 00	- 00
SG6.0RT	25	25								
SG7.0RT	25	12,5								
SG8.0RT	25	12,5								
SG10RT	25	12,5								
SG12RT	25	12,5								
SG15RT	30	30								
SG17RT	30	30								
SG20RT	30	30								
SG350HX	40	40	40	40	40	40	40	40	40	40
SG33CX-V112	26	26	26							15155
SG40CX-V112	26	26	26	26						
SG50CX-V112	26	26	26	26	26					
SG110CX-V11	26	26	26	26	26	26	26	26	26	
SG25CX-P2*	30	30	30							
SG30CX-P2*	30	30	30							
SG36CX-P2*	30	30	30	30						
SG40CX-P2*	30	30	30	30						
SG110CX-V112	26	26	26	26	26	26	26	26	26	
SG33CX-P2	30	30	30							
SG50CX-P2	30	30	30	30						
SG125CX-P2	30	30	30	30	30	30	30	30	30	

Compatibility M600-M & Sungrow

PRINCIPAL RESEARCH	Full optimization possible
	Partial optimization only (max. 50% of modules)
A THE RESERVE	No Compatibility

Tyme	MPP1	MPP2	МРР3	MPP4	MPP5	MPP6	MPP7	MPP8	MPP9	MPP10
Type SG15KTL-M	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
	15	15								
SG20KTL-M	15	15								
SG10KTL-M	22	22								
SG12KTL-M	22	22								
SG5KTL-MT	22	22								
SG6KTL-MT	22	22							-	
SG8KTL-M	22	22								
SG2K-S	10									
SG2K5-S	10									
SG3K-S	10									
SG125HV	25	25	25	25	25	25	25	25	25	
SG250HX	30	30	30	30	30	30	30	30	30	30
SG5.0RT	25	25								
SG6.0RT	25	25								
SG7.0RT	25	12,5								
SG8.0RT	25	12,5								
SG10RT	25	12,5								
SG12RT	25	12,5								
SG15RT	30	30								
SG17RT	30	30								
SG20RT	30	30								
SG350HX	40	40	40	40	40	40	40	40	40	40
SG33CX-V112	26	26	26							
SG40CX-V112	26	26	26	26						
SG50CX-V112	26	26	26	26	26					
SG110CX-V11	26	26	26	26	26	26	26	26	26	
SG25CX-P2*	30	30	30							
SG30CX-P2*	30	30	30			EN FI				
SG36CX-P2*	30	30	30	30						
SG40CX-P2*	30	30	30	30						
SG110CX-V112	26	26	26	26	26	26	26	26	26	
SG33CX-P2	30	30	30						2.0	
SG50CX-P2	30	30	30	30						
SG125CX-P2	30	30	30	30	30	30	30	30	30	



Manufacturer Declaration

Sungrow SHxxRT and BRC M600E optimizer Compatibility





Manufacturer Declaration

All models of the **Sungrow SHxxRT V112 and SHxxRT-20 series** devices have been verified to be **compatible with BRC optimizers.** This compatibility applies to BRC optimizer model **M600E**, provided that system configuration follows the outlined conditions.

Compatibility conditions:

- Each MPPT input must be connected to **only one string of PV panels**.
- If a string is equipped with BRC optimizers, the **minimum number of BRC optimizers per string is one**.
- The Global Scanning function is not affected by the use of BRC optimizers.
- Compatibility applies to both **SHxxRT V112** and **SHxxRT-20** hybrid inverter
- For PV module compatibility, please refer to the **SHxxRT V112** and **SHxxRT-20** hybrid inverter **datasheet and installation guidelines.** PV modules chosen must be within the hybrid inverter max Isc and voltage range. PV modules with higher current than the hybrid inverter Impp could incur in power clipping in high irradiance situations. (for example bi-facial modules in south orientation)
- In partial optimization scenario, there should be enough non-optimized PV modules in the string to reach the start-up voltage of the hybrid inverter.

Luna Li

Luna Li

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