

# Maintenance Report

## SUNNY CENTRAL HE-20



Version: 1.0

Mat. no.: 98-4032410

<b>Project name:</b>	<b>Customer:</b>
<b>Address, location of the plant:</b>	
Serial number of the Sunny Central:	
Production version of the Sunny Central:	



### Contents of the maintenance report

In conjunction with the other product documentation, the maintenance report assures faultless operation of the Sunny Central and peripheral devices from SMA Solar Technology AG. Maintenance work does not automatically guarantee electrical safety.

The maintenance report contains all necessary maintenance intervals of the inverter and the accessory as well as the preventative replacement intervals of individual components.



### Storage of the maintenance report

- After maintenance work, keep the maintenance report at hand near the inverter.



### Maintenance instructions

- Perform all work as described in the maintenance manual. Observe all safety precautions.
- Observe the maintenance instructions in the documentation of the supplied components.

## Appendices

No.	Appendix

# 1 Checklist: Sunny Central

Section in the maintenance manual	No.	Maintenance work	Interval	Date completed
5.1	1.	Reading off Error Messages and Warnings	1 month* depending on the plant size	
5.2	2.	Checking the DC Switch-Disconnecter	24 months	
5.3	3.	Checking the External Fast-Stop	24 months	
5.4	4.	Checking the AC Circuit Breaker <ul style="list-style-type: none"> <li>• Functional test</li> <li>• Cleaning</li> <li>• Checking the contact elements</li> </ul>	24 months	
6.4.2	5.	Checking the Interior of the Switch Cabinet	24 months	
6.4.3	6.	Checking the Fuses/Disconnecting Blades	24 months	
6.4.6	7.	Checking the Screw Connections of the Power Cabling	24 months	
6.4.7	8.	Checking the Labels	24 months	
6.5.1	9.	Checking the Door Seals	24 months	
6.5.2	10.	Checking the Locking Devices, Door Stops and Hinges	24 months	
6.5.3	11.	Checking the Surface of the Switch Cabinet	24 months	
6.5.4	12.	Checking the Switch Cabinet for Corrosion	24 months	
6.8.2	13.	Checking the Fans	24 months	
6.8.3	14.	Checking the Heating Element and the Hygrostat	24 months	

\* The maintenance interval may need to be reduced, depending on the location or ambient conditions.



## Regular data backups

Back up and archive the central inverter data at regular intervals. This can be done by remote query, or during routine maintenance.

## 2 Report of the Preventative Replacement Intervals for Sunny Central HE-20

Section in the maintenance manual	No.	Maintenance work	Interval	Date completed
3	1.	Replacing the 24 V Power Supply Units	Every 10 years	
3	2.	Replacing the Fan of the Inverter Bridge	Every 13 years	
3 / 6.3	3.	Replacing the Filter Mats	Every 2 years	
3 / 6.4.5	4.	GFDI / Soft Grounding	After 100 trippings due to short circuit	
3 / 6.4.4	5.	Surge Arrester	If tripped	

## 3 Checklist: Sunny String-Monitor

Section in the maintenance manual	No.	Maintenance work	Interval	Date completed
7.1.4	1.	Checking the Installation and Mounting Location	24 months	
7.1.5	2.	Checking the Enclosure	24 months	
7.1.6	3.	Checking the Enclosure Interior	24 months	
7.1.7	4.	Checking the Base Plate	24 months	
7.1.8	5.	Checking the Covers and Labels	24 months	
7.1.9	6.	Checking the Fuses and Fuse Holders	24 months	
7.1.10	7.	Checking the Screw Connections and Clamp Connections	24 months	
7.1.11	8.	Checking the Surge Arrester	24 months	
7.1.12	9.	Checking the Supply Voltage	24 months	
7.1.13	10.	Checking the Shunt Release (optional)	24 months	
7.1.14	11.	Checking the Undervoltage Release (optional)	24 months	
7.1.15	12.	Checking the Earth Connection	24 months	
7.1.16	13.	Checking the LEDs on the Measurement PCB	24 months	

## 4 Checklist: Sunny Main Box

Section in the maintenance manual	No.	Maintenance work	Interval	Date completed
7.2.4	1.	Checking the Installation and Mounting Location	24 months	
7.2.5	2.	Checking the Enclosure	24 months	
7.2.6	3.	Checking the Enclosure Interior	24 months	
7.2.7	4.	Checking the Base Plate	24 months	
7.2.8	5.	Checking the Covers and Labels	24 months	
7.2.9	6.	Checking the Fuses and Fuse Holders	24 months	
7.2.10	7.	Checking the Screw Connections and Clamp Connections	24 months	

## 5 Checklist: SMA String-Combiner

Section in the maintenance manual	No.	Maintenance work	Interval	Date completed
7.3.3	1.	Checking the Installation and Mounting Location	24 months	
7.3.4	2.	Checking the Base Plate	24 months	
7.3.5	3.	Checking the Enclosure and the Enclosure Interior	24 months	
7.3.6	4.	Checking the String Cables	24 months	
7.3.7	5.	Checking the Covers and Labels	24 months	
7.3.8	6.	Checking the Fuses and Fuse Holders	24 months	
7.3.9	7.	Checking the Screw Connections and Clamp Connections	24 months	
7.3.10	8.	Checking the Surge Arrester	24 months	

Your signature confirms that the work listed above has been carried out.

Customer or contractor company (in block letters)	Last name, first name (in block letters)	Date	Signature