

SUNNY BACKUP SET S

Simple

- > For integration into existing and new PV systems
- > Preconfigured set for easy installation

Low cost

- > Compact and cost effective backup inverter
- > Extremely small-sized and low-cost switching device
- > Optimised battery dimensions due to integration of PV system

Efficient

- > Power supply and battery charging via grid
- > Not impairing PV energy yield

Reliable

- > Automatic switching to backup power in less than 50 milliseconds
- > Automatic disconnection device per DIN VDE 0126-1-1
- > 5 year SMA warranty



SUNNY BACKUP SET

Solar Power – Even in the Event of Grid Failure

Now with the new Sunny Backup Set S from SMA, homeowners can use their solar power systems to power important loads in a reliable way, in the event of grid failure.

As a supplement to the PV system, the system automatically switches to stand-alone power supply in less than 50 milliseconds in the event of a power outage. The Sunny Backup Set can be added to either new or existing PV systems without impairing efficiency. And the best part: Due to the integration of the PV system, a small and therefore low-cost battery can be implemented, as it is usually only needed to cover the night hours. SMA offers the Sunny Backup Set S as a preconfigured and easy-to-install kit solution for power classes up to 2.2 kW of backup power and up to 4.6 kW of PV power.

Technical Data SUNNY BACKUP SET S

	SUNNY BACKUP SET S
General information	
Number of phases	1-phase
Nominal voltage / nominal frequency	230 V / 50 Hz
Number of Sunny Backups (SBUs)	1 x SBU 2200
Switching device (AS-Box)	AS-Box S 1
Permitted grid system	TN-C / TN-S
PV system	
Nominal AC PV power / AC PV current	4.6 kW / 20 A
Automatic disconnection device per DIN VDE 0126-1-1	Yes
Loads	
Nominal power / current during grid operation	5.7 kW / 25 A
Max. backup power (nominal / 30 min. / 1 min.)	2.2 kW / 2.9 kW / 3.8 kW
Battery	
Type	absorbent glass mat battery (AGM)
Nominal voltage (bank / block)	24 V / 12 V
Energy / capacity (C10)	3.4 kWh / 142 Ah
Number of blocks	2
Service life (according to EUROBAT)	> 12 years
Mechanical data	
SBU (width / height / depth in mm)	470 / 445 / 180
AS-Box (width / height / depth in mm)	200 / 300 / 120
Battery per block (width / height / depth in mm)	498 / 230 / 177
Weight per (SBU / AS-Box / battery block)	18 kg / 4.5 kg / 54.5 kg
Ambient conditions	
Ambient temperature (SBU, AS-Box)	-25 °C ... +60 °C
Protection rating according to DIN EN 60529 (SBU, AS-Box)	IP54 / IP54
Accessories	
User interface (SRC-1)	included
Battery connection cables (4m), communication cables	included
Battery fuse 125 A (BATFUSE-A.01)	included
Compatible PV inverters	All Sunny Boys (SB 2500, SB 2800, SB 3000 models released after May 2005)

Principle of a PV system with the Sunny Backup Set S

