Technical Information

SMA SMART HOME
Compatibility List for Loads
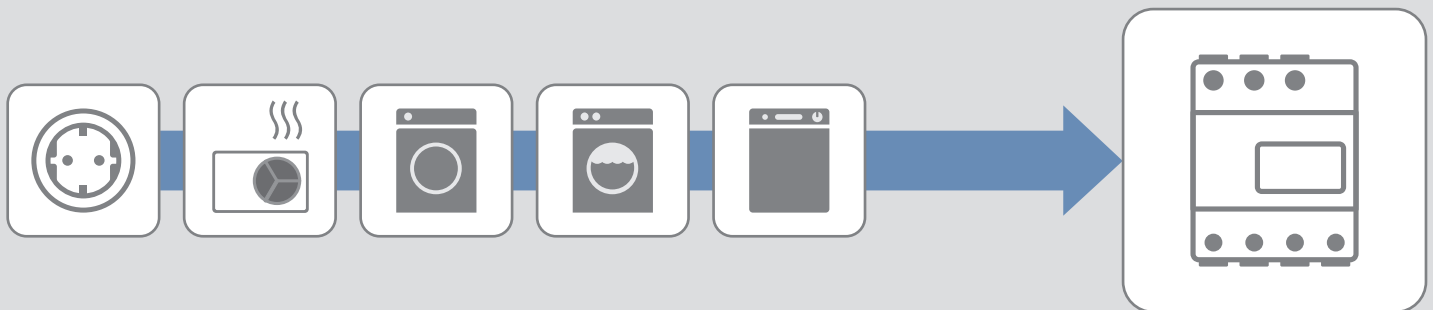
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1   Content and Structure of this Document

As an energy manager for systems equipped with PV systems, the Sunny Home Manager offers compatible solutions for load control of devices from different manufacturers. Loads can include, for example, appliances for the smart home, household, heating and hot water preparation as well as e-mobility.

In principle there are two types of load control for this:

- Basic solution (e.g. via radio-controlled sockets)
- Direct data connection with intelligent communication interface (e.g. via EEBus or SEMP)

Radio-controlled sockets enable communication with a large number of devices that cannot be controlled via a direct data connection to the energy management system.

However, if loads have a direct data connection, they can be included in the energy management system. Detailed configuration is not required for devices with an intelligent communication interface. The Sunny Home Manager automatically exchanges all load-relevant information directly with the appliances in the household and includes them optimally in the planning process.

> ℹ️ **This document contains a selection of loads that, according to the manufacturer, use the load control's communication standard to communicate directly with the Sunny Home Manager.**
>
> Not all devices have been tested by SMA in conjunction with the Home Manager. This list has been compiled according to the information provided by the manufacturers.

2   Smart Home

2.1   Radio-controlled sockets

2.1.1   Radio-controlled sockets from Edimax

For the compatibility of the WLAN radio sockets from Edimax with the Sunny Home Manager 2.0 (from version 2.0.6.R), the firmware versions of the devices must be taken into account:

Product	Firmware version
SP-2101W	up to 2.08
SP-2101W V2	from 1.00
SP-2101W V3	from 4.04

2.1.2   Radio-controlled sockets from AVM

The Sunny Home Manager supports AVM radio-controlled sockets in combination with a FRITZ!Box with DECT function. The FritzOS version of the FRITZ!Box must be taken into account.

Product	FritzOS version
FRITZ!DECT 200	from 5.50
FRITZ!DECT 210	from 6.0

3 Home appliances

3.1 Dishwasher

3.1.1 Dishwasher from Bosch

The following dishwashers from Bosch are equipped with a communication module that supports connection to the Sunny Home Manager from firmware version 1.13 or higher (as of September 2020:

Series	Product	Sold	Communication standard
Bosch Series 6	SBA68PD06E	Germany	EEBus
	SBE68TX26E	Germany	EEBus
	SBI68TS06E	Germany	EEBus
	SBV68TX06E	Germany	EEBus
	SMA68PD06E	Germany	EEBus
	SME68TX26E	Germany	EEBus
	SMI68TS06E	Germany	EEBus
	SMS68NW06E	Germany	EEBus
	SMU68TS06E	Germany	EEBus
	SMS68TW06E	Germany	EEBus
	SMV68TX06E	Germany	EEBus
Bosch Series 8	SMI88TS16D	Germany	EEBus
	SMI88TS06E	Germany	EEBus
	SMI88US36E	Germany	EEBus
	SMA88TD36E	Germany	EEBus
	SMS88TI36E	Germany	EEBus
	SMS88UI36E	Germany	EEBus
	SMS88US36E	Germany	EEBus
	SMV88TX16D	Germany	EEBus
	SMV88TX06E	Germany	EEBus
	SMV88UX36E	Germany	EEBus
	SBA88TD36E	Germany	EEBus

3.1.2   Dishwasher from Siemens

The following dishwashers from Siemens are equipped with a communication module that supports connection to the Sunny Home Manager from firmware version 1.13 or higher (as of September 2020):

Series	Product	Sold	Communication standard
Siemens IQ500	SN258I06TE	Europe	EEBus
	SN258W06TE	Europe	EEBus
	SN458B06TS	Europe	EEBus
	SN558S06ME	Europe	EEBus
	SN558S06TE	Europe	EEBus
	SN558S16PE	Europe	EEBus
	SN658X06TE	Europe	EEBus
	SN658X16PE	Europe	EEBus
	SN758X06TE	Europe	EEBus
	SN758X46TE	Europe	EEBus
	SN778D16TE	Europe	EEBus
	SN858D06PE	Europe	EEBus
	SX558S06TE	Europe	EEBus
	SX658X06TE	Europe	EEBus
	SX758X06TE	Europe	EEBus
	SX758X46TE	Europe	EEBus
	SX858D06PE	Europe	EEBus
	SX858D36TE	Europe	EEBus

Series	Product	Sold	Communication standard
Siemens IQ700	SN278I36TE	Europe	EEBus
	SN278I36UE	Europe	EEBus
	SN478S16TD	Europe	EEBus
	SN478S36TE	Europe	EEBus
	SN478S36UE	Europe	EEBus
	SN578S16TD	Europe	EEBus
	SN578S36TE	Europe	EEBus
	SN578S36UE	Europe	EEBus
	SN678X16TD	Europe	EEBus
	SN678X36TE	Europe	EEBus
	SN678X36UE	Europe	EEBus
	SN878D26PE	Europe	EEBus
	SX678X36TE	Europe	EEBus
	SX678X36UE	Europe	EEBus
	SX878D26PE	Europe	EEBus

3.2 Clothes dryer

3.2.1 Clothes dryer from Bosch

The following dryers from Bosch are equipped with a communication module that supports connection to the Sunny Home Manager from firmware version 1.13 or higher (as of September 2020)

Series	Product	Sold	Communication standard
Bosch Home Professional	WTYH7701	Germany	EEBus
	WTYH7781	Germany	EEBus
	WTY887W6	Germany	EEBus
	WTX87E90	Germany	EEBus
	WTX87E40	Germany	EEBus
Bosch Series 8	WTX87M40	Germany	EEBus
	WTX87M20	Germany	EEBus
	WTX87K90	Germany	EEBus
	WTX87K80	Germany	EEBus

3.2.2   Clothes dryer from Siemens

The following dryers from Siemens are equipped with a communication module that supports connection to the Sunny Home Manager from firmware version 1.13 or higher (as of September 2020):

Series	Product	Sold	Communication standard
Siemens avantgarde	WT47X940EU	Germany, Austria	EEBus
Siemens IQ800	WT7YH701	Germany, Austria	EEBus

3.3   Washing machine

3.3.1   Washing machine from Bosch

The following washing machines from Bosch are equipped with a communication module that supports connection to the Sunny Home Manager from firmware version 1.13 or higher (as of September 2020):

Series	Product	Sold	Communication standard
Bosch Home Professional	WAV28E41	Germany	EEBus
	WAYH2842	Germany	EEBus
	WAYH2891	Germany	EEBus
	WAYH8748	Germany	EEBus
	WAYH8749	Germany	EEBus
	WAX32F90	Germany	EEBus
	WAX32E90	Germany	EEBus
Bosch Series 8	WAV28K40	Germany	EEBus
	WAV28M40	Germany	EEBus

3.3.2   Washing machine from Siemens

The following washing machines from Siemens are equipped with a communication module that supports connection to the Sunny Home Manager from firmware version 1.13 or higher (as of September 2020):

Series	Product	Sold	Communication standard
Siemens avantgarde	WM14U840EU	Germany, Austria	EEBus
	WM14U940EU	Germany, Austria	EEBus
Siemens IQ700	WM14VL40	Germany, Austria	EEBus
	WM14VM40	Germany, Austria	EEBus
	WM14VMG1	Germany, Austria	EEBus

Series	Product	Sold	Communication standard
Siemens IQ800	WM14VG40	Germany, Austria	EEBus
	WM16XE90	Germany, Austria	EEBus
	WM16XF90	Germany, Austria	EEBus
	WM4YH748	Germany, Austria	EEBus
	WM4YH749	Germany, Austria	EEBus
	WM4YH7W0	Germany, Austria	EEBus
	WM6YH842	Germany, Austria	EEBus
	WM6YH891	Germany, Austria	EEBus

4 Space- and Water Heating

4.1 Heat pumps

Heat pumps are divided into three different types. This has an influence on the type of connection to the Sunny Home Manager.

ON/OFF heat pumps are heat pumps whose compressor runs with a constant speed during operation and draws a constant level of power. There are three control options for ON/OFF heat pumps:

- Control via radio-controlled sockets
- Direct control via the SG-Ready input of the heat pump
- Direct control via communication standard (SEMP)

Inverter heat pumps are heat pumps where the rotating speed of the compressor during operation is controlled in such a way that, in accordance with the available temperature profile, an optimum performance level is achieved. The heat pump control is able to adjust the energy consumption according to the situation. There are two control options for inverter heat pumps:

- Direct control via the SG-Ready input of the heat pump
- Direct control via communication standard (SEMP)

Integral systems as well as air-to-water heat pumps and brine-to-water heat pumps perform the function of ventilation in addition to space- and water heating. They can be controlled by the Sunny Home Manager if they communicate via a communication standard.

According to the manufacturer, the heat pumps listed below can be controlled directly by the Sunny Home Manager via a communication standard or have been tested with the Sunny Home Manager in conjunction with radio sockets.

4.1.1   Heat pumps from AEG Haustechnik

Type	Series	Product	Communication standard
ON/OFF heat pump	WPT	220 EL	Radio-controlled socket
		300 EL	Radio-controlled socket
		300 EL plus	Radio-controlled socket

4.1.2   Heat pumps from Stiebel Eltron

The following heat pumps are able to use the SEMP data protocol in conjunction with the Stiebel Eltron ISGweb and the EMI software module or have been tested with the Sunny Home Manager in conjunction with a radio socket.

Type	Series	Product	Communication standard
ON/OFF heat pumps	Stiebel WWK	220 electronic	Radio-controlled socket
		300 electronic	Radio-controlled socket
		300 electronic SOL	Radio-controlled socket
		221 electronic	Radio-controlled socket
		301 electronic	Radio-controlled socket
		301 electronic SOL	Radio-controlled socket
Integral systems	Stiebel LWZ	303/403 (Integral/SOL) from manufacture date 08/2008	SEMP
		303/404 (SOL)	SEMP
		304/404 Trend	SEMP
		504	SEMP
Air-to-water heat pumps	Stiebel WPL	10 I, IK, AC	SEMP
		13/20 A basic	SEMP
		13-23 E / cool	SEMP
		34/47/57	SEMP
		15/25 A(C)(S)	SEMP

Type	Series	Product	Communication standard
Brine-to-water heat pumps	Stiebel WPF	20-66 / HT	SEMP
		04-16 / cool	SEMP
	Stiebel WPC	04-13 / cool	SEMP

4.1.3   Heat pumps from Tecalor

The following heat pumps are able to use the SEMP data protocol in conjunction with the Tecalor ISG web and the EMI software module or have been tested with the Sunny Home Manager in conjunction with a radio socket.

Type	Series	Product	Communication standard
ON/OFF heat pumps	Tecalor TTA	220 electronic	Radio-controlled socket
		300 electronic	Radio-controlled socket
		300 electronic SOL	Radio-controlled socket
		221 electronic	Radio-controlled socket
		301 electronic	Radio-controlled socket
		301 electronic SOL	Radio-controlled socket
Integral systems	Tecalor THZ	303/403 (Integral/SOL) from manufacture date 08/2008	SEMP
		304/404 (SOL)	SEMP
		304/404 Trend	SEMP
		504	SEMP
Air-to-water heat pumps	Tecalor TTL	10 I, IK, AC	SEMP
		13/20 A basic	SEMP
		13-23 E / cool	SEMP
		34/47/57	SEMP
		15/25 A(C)(S)	SEMP
Brine-to-water heat pumps	Tecalor TTF	10-16 M	SEMP
		20-66 / HT	SEMP
		04-16 / cool	SEMP
	Tecalor TTC	04-13 / cool	SEMP

4.1.4   Vaillant Heat Pumps

The following Vaillant heat pumps are supported by the Sunny Home Manager from firmware version 2.2.9 or higher. The heat pumps have to be connected to the local network (router) via a Vaillant VR 920 or VR 921 communication unit (as of September 2020).

Series	Product	Part number	Sold	Communication standard
aroTHERM	VWL 55/2 A 230V	0010014566	Germany, Austria	EEBus
	VWL 55/3 A 230V	0010019758	Germany	EEBus
	VWL 85/2 A 230V	0010011971	Germany, Austria	EEBus
	VWL 85/2 A 230V	0010016409	Switzerland	EEBus
	VWL 85/3 A 230V	0010019759	Germany, Austria	EEBus
	VWL 115/2 A 400V	0010013290	Germany, Austria	EEBus
	VWL 115/2 A 400V	0010016411	Switzerland	EEBus
	VWL 155/2 A 400V	0010014568	Germany, Austria	EEBus
	VWL 155/2 A 400V	0010016413	Switzerland	EEBus

Series	Product	Part number	Sold	Communication standard
aroTHERM Split	VWL 35/5 AS 230V S2	0010021109	Belgium, Germany, Switzerland	EEBus
	VWL 35/5 AS 230V	0010021617	Italy, Austria, The Netherlands, Slovenia, Spain,Turkey	EEBus
	VWL 55/5 AS 230V S2	0010021110	Belgium, Germany, Switzerland	EEBus
	VWL 55/5 AS 230V	0010021618	Italy, Austria, The Netherlands, Slovenia, Spain,Turkey	EEBus
	VWL 75/5 AS 230V S2	0010021111	Belgium, Germany, Switzerland	EEBus
	VWL 75/5 AS 230V	0010021619	Italy, Austria, The Netherlands, Slovenia, Spain,Turkey	EEBus
	VWL 105/5 AS 230V S2	0010021112	Belgium, Switzerland	EEBus
	VWL 105/5 AS S2	0010021113	Belgium, Germany, Switzerland	EEBus
	VWL 105/5 AS	0010021621	Austria, The Netherlands, Slovenia, Spain	EEBus
	VWL 125/5 AS 230V S2	0010021114	Belgium, Switzerland	EEBus
	VWL 125/5 AS S2	0010021115	Belgium, Germany, Switzerland	EEBus
	VWL 125/5 AS	0010021623	Italy, Austria, The Netherlands, Slovenia, Spain,Turkey	EEBus

Series	Product	Part number	Sold	Communication standard
flexoTHERM	VWF 57/4 400V	0010016420	Germany, Austria	EEBus
	VWF 57/4 S1 400V	0010019411	Belgium	EEBus
	VWF 87/4 400V	0010016421	Germany, Austria	EEBus
	VWF 87/4 S1 400V	0010019412	Belgium	EEBus
	VWF 117/4 400V	0010016422	Germany, Austria	EEBUS
	VWF 117/4 S1 400V	0010019413	Belgium	EEBus
	VWF 157/4 400V	0010016423	Germany, Austria	EEBus
	VWF 157/4 S1 400V	0010019414	Belgium	EEBus
	VWF 197/4 S1 400V	0010019415	Belgium	EEBus
flexoTHERM / flexo-COMPACT	VWF 197/4 400V	0010016424	Germany, Austria	EEBus
	VWF 197/4 400V	0010016681	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
	VWF 58/4 400V	0010016425	Germany, Austria	EEBus
	VWF 58/4 400V	0010016682	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
	VWF 88/4 400V	0010016426	Germany, Austria	EEBus
	VWF 88/4 400V	0010016683	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
	VWF 118/4 400V	0010016427	Germany, Austria	EEBus
	VWF 118/4 400V	0010016684	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus

Series	Product	Part number	Sold	Communication standard
flexoCOMPACT	VWF 57/4 400V	0010016677	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
	VWF 87/4 400V	0010016678	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
	VWF 117/4 400V	0010016679	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
	VWF 157/4 400V	0010016680	France, The Netherlands, Norway, Switzerland, Slovenia	EEBus
recoCOMPACT exclusive	VWL39/5	0010023015	Germany	EEBus
	VWL39/5	0010023018	Austria	EEBus
	VWL59/5	0010023016	Germany	EEBus
	VWL59/5	0010023019	Austria	EEBus
	VWL79/5	0010023017	Germany	EEBus
	VWL79/5	0010023020	Austria	EEBus
versoTHERM plus	VWL37/5	0010022997	Germany	EEBus
	VWL37/5	0010023000	Austria	EEBus
	VWL57/5	0010022998	Germany	EEBus
	VWL57/5	0010023001	Austria	EEBus
	VWL57/5	0010023013	Switzerland	EEBus
	VWL77/5	0010022999	Germany	EEBus
	VWL77/5	0010023002	Austria	EEBus
	VWL77/5	0010023014	Switzerland	EEBus

4.1.5   Heat pumps from Wolf

As of September 2020

Series	Product	Sold	Communication standard
CHA-Monoblock	CHA-07/400V	Germany, Austria, Switzerland, Belgium, Czech Republic, Slovakia, Denmark, Spain, France, Italy, Netherlands, Poland	EEBus
	CHA-10/400V	Germany, Austria, Switzerland, Belgium, Czech Republic, Slovakia, Denmark, Spain, France, Italy, Netherlands, Poland	EEBus

Series	Product	Sold	Communication standard
CHC-Monoblock	CHC/200	Germany, Austria, Belgium, Czech Republic, France, Italy, Netherlands, Hungary, Estonia	EEBus
	CHC/300	Germany, Austria, Belgium, Czech Republic, France, Italy, Netherlands, Hungary, Estonia	EEBus
CHT-Monoblock	CHT/200	Germany	EEBus
	CHT/300	Germany	EEBus

4.2 Heating elements

4.2.1 Heating elements from MYPV

Product	Communication standard
AC ELWA-E	SEMP
AC • Thor	SEMP
AC • Thor 9s	SEMP

5 E-mobility

5.1 Charging stations for electric vehicles

5.1.1 Charging stations from SMA

Series	Product	Communication standard
SMA EV Charger	EVC7.4-1AC-10	SEMP
	EVC22-3AC-10	SEMP

5.1.2 Charging stations from Mennekes

Series	Product	Communication standard
Mennekes AMTRON	Xtra	SEMP
	Premium	SEMP

5.1.3 Charging stations from DiniTech

Series	Product	Communication standard
NRGkick	NRGkick 32A BLE *	SEMP
	NRGkick 16A BLE *	SEMP

* NRGkick Connect required

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