Technical Information

SUNNY ISLAND (MOW + US)

Approved Batteries and Information on Batteries in Sunny Island Systems

Table of contents

1 General Information

Die Sunny Island product family (SI3.0M, SI4.4M, SI6.0H and SI8.0H) is equipped with an integrated battery management for lead-acid batteries of type FLA and VRLA.

It is also possible to connect an external battery management that uses different battery technologies.

⚠ WARNING

Danger to life due to fire or explosion when batteries are fully discharged

A fire may occur due to incorrect charging of fully discharged batteries. This can result in death or serious injury.

- Before commissioning the system, verify that the battery is not fully discharged.
- Do not commission the system if the battery is fully discharged.
- If the battery is fully discharged, contact the battery manufacturer for further proceedings.
- Only charge fully discharged batteries as instructed by the battery manufacturer.

Legal Provisions

This document does not replace any regional, state, provincial, federal or national laws, regulations or standards that apply to the installation, electrical safety and use of the product. SMA Solar Technology AG assumes no responsibility for the compliance or non-compliance with such laws or codes in connection with the installation of the Sunny Island.

Retrofitting

The batteries listed in this document can also be retrofitted to systems already in operation using Sunny Island-11/-12/-13. The prerequisite for this is a firmware update of the inverter. The update file is, for example, available for download on the product page of the inverter at www.SMA-Solar.com.

Using lead-acid batteries

The battery management integrated in the Sunny Island ensures that the lead-acid battery is charged carefully, deep discharge is avoided and the state of charge of the battery is determined. Prerequisite for optimum operation of the system and, in particular, for gentle treatment of the lead-acid battery is the adjustment of the parameters of the lead-acid battery to the values of each respective application recommended by the battery manufacturer (see operation and installation manual).

Using lithium-ion and hybrid (sodium)-ion batteries

All lithium-ion and hybrid (sodium)-ion batteries supply a defined nominal current. The full functionality for the PV storage system can only be guaranteed if the battery capacity (battery capacity and battery currents) is matched to the Sunny Island system constellation used. In particular, three-phase systems usually require more than one battery.

- Pay attention to the battery manufacturers' recommendations at the end of this document or to the minimum configuration lists regarding the suitable dimensioning of the battery (battery type, circuitry and number of battery modules). Only this ensures that the nominal and overload currents specified in the datasheet for the various system constellations and applications can be achieved.

2 Approved Batteries

2.1 Sunny Island 3.0M / 4.4M / 6.0H / 8.0H

The lithium-ion batteries of the following manufacturers are approved for the SMA Energy System Home and the Sunny Island 3.0M / 4.4M / 6.0H / 8.0H:

Manufacturer ADS-TEC

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
StoraXe® Home & Small Business SRS0009	✓	✓	✓	✓	-	-

Manufacturer Akasol

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
neeoQube	✓	-	-	-	-	-
neeoRack	✓	✓	✓	✓	✓	✓
			Only for Sunny Island 3.0M and 4.4M		Only for Sunny Island 3.0M and 4.4M	

Manufacturer Axitec

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
AXIstorage Li7S As of firmware 2.04	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	
AXIstorage Li8S As of firmware version 3.04	✓	✓	✓	✓	✓	✓
AXIstorage Li9S As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	
AXIstorage Li10S As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	

Manufacturer BMZ

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
BMZ ESS 3.0 As of firmware 2.04	✓	✓	✓	✓	✓	✓
BMZ ESS 7.0 As of firmware 2.04	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	
BMZ ESS 9.0 As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	
BMZ ESS X As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	
BMZ ESS Z As of firmware version 3.04	✓	✓	✓	✓	✓	✓

Manufacturer BYD

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
B-BOX As of firmware 2.7	✓	✓	✓	✓	✓	✓
Battery-Box LV As of firmware 1.0	✓	✓	✓	✓ 3~ only for Sunny Island 4.4M	-	-
Battery-Box Premium LVL 15.4 As of firmware BMU: 1.8 As of firmware BMS: B-1.3	✓	✓	✓	✓	✓	✓
Battery-Box Premium LVS 4.0-24.0 As of firmware BMU: 1.18 As of firmware BMS: 1.8	✓	✓	✓	✓	✓	✓

Manufacturer Cegasa

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
eBick PRO 280 As of firmware 3.2.0	✓	✓	✓	✓	✓	✓
eBick Ultra 175 As of firmware 14032023	✓	✓	✓	✓	✓	✓

Manufacturer Exide / GNB

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Sonnenschein Lithium Module Pro As of firmware 1.11	✓	-	✓	-	✓	-
Sonnenschein lithium As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	

Manufacturer GS-HUB

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
HomeHub (MU8G1 + BU25G1) As of firmware MU > 8.5 As of firmware BU > 3.13	✓	✓ 3~ only for Sunny Island 4.4M[1)]	✓	-	✓	-

Manufacturer Hoppecke

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
sun|powerpack premium As of firmware 1.1.0 r11767	✓	✓	✓	✓	✓	✓

[1)] During three-phase continuous operation with the nominal power of the inverter, derating of the battery may occur depending on the temperature and state of charge of the battery. Derating the battery temporarily reduces the power of the entire system.

Manufacturer IBC

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
SolStore X.X Li As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	

Manufacturer Leclanché

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Apollion Cube As of firmware 2.06	✓	✓	✓	✓	✓	✓
					Emergency power generator Required	

Manufacturer LG Energy Solution

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
RESU 3.3	✓	-	-	-	-	-
	Only for Sunny Island 3.0M and 4.4M					
RESU 5.0	✓	-	-	-	-	-
RESU 6.4	✓	-	✓	-	-	-
	Recommended for Sunny Island 3.0M and 4.4M		Only for Sunny Island 3.0M and 4.4M			
RESU 6.5	✓	-	✓	-	-	-
			Only for Sunny Island 3.0M			
RESU 10	✓	-	✓	-	-	-
			Only for Sunny Island 3.0M and 4.4M			
RESU 12 [2)] As of firmware 2.0.0.0	✓	-	✓	-	-	-
			Only for Sunny Island 4.4M and 6.0H			
RESU 13 [2)] As of firmware 1.7.0.3	✓	-	✓	-	-	-
			Only for Sunny Island 4.4M and 6.0H			

[2)] RESU 12 and RESU 13 are designed to be discharged under power of 5 kW in all operating modes (self-consumption systems and battery-backup systems). The overload capability of the battery is limited to a duration of 3 seconds for all conditions exceeding nominal power. Ensure that the system is operated according to its intended use.

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
RESU Plus Extension Kit (an accessory for the parallel connection of 2 RESU batteries)[3]	✓	-	✓	-	-	-
			Only for Sunny Island 3.0M and 4.4M			

Manufacturer Mercedes-Benz Energy GmbH

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Mercedes-Benz Energy Storage Home As of firmware 29.30 - 5.X	✓	-	✓	-	-	-
	Recommended for Sunny Island 3.0M and 4.4M		Recommended for Sunny Island 3.0M and 4.4M			
Mercedes-Benz Energy Storage Home (2.0) As of firmware 10.xx	✓	-	-	-	-	-

Manufacturer Murata

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Murata PLC-BMU solution with IJ1101M	-	-	-	-	✓	✓

Manufacturer Pylontech

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
US2000 As of firmware 2.9 US2000C As of firmware 2.1	✓	✓	✓	✓	✓[4]	✓[4]
US3000 As of firmware 2.9 US3000C As of firmware 2.1	✓	✓	✓	✓	✓[4]	✓[4]
US5000 As of firmware 1.0	✓	✓	✓	✓	✓[4]	✓[4]

[3] If two RESU batteries are used with the RESU Plus Extension Kit, the total battery capacity is equal to the sum of the two individual battery capacities. However, the maximum peak power of both batteries is limited to 5 kW with the RESU Plus Extension Kit. Therefore, only Sunny Islands 3.0-4.4M can be used in the battery-backup system with the RESU Plus Extension Kit.

[4] When used in an off-grid system, the battery protection mode level 3 must not be set below 4% on the inverter.

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
US5000B As of firmware 1.0	✓	✓	✓	✓	✓[4)]	✓[4)]
UP5000 As of firmware 2.1	✓	✓	✓	✓	✓[4)]	✓[4)]

Manufacturer Sony

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Controller IJ1004C Module fORTELION IJ1001M	✓	✓	✓	✓	✓	✓

Manufacturer SSL Energie GmbH

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
eSafe© As of firmware 1.0.35	✓	✓	✓	✓	✓	✓

Manufacturer Tesvolt

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Tesvolt Lithium-Ion battery-storage system Li10 As of firmware 3.17	✓	✓	✓	✓	✓	✓
Tesvolt Li-Ion battery-storage system from Li 20 As of firmware 1.11	✓	✓	✓	✓	✓	✓
TS-series As of firmware 1.06	✓	✓	✓	✓	✓	✓

The hybrid (sodium)-ion batteries of the following manufacturers are approved for the SMA Energy System Home and the Sunny Island 3.0M / 4.4M / 6.0H / 8.0H:

Manufacturer Aquion Energy[5)]

	Self-consumption systems		Battery backup systems		Off-grid systems	
	1~	3~	1~	3~	1~	3~
Aspen 48S / 48M	✓	✓	✓	✓	✓	✓

2.2 Sunny Island 4548-US / 6048-US

The lithium-ion batteries of the following manufacturers are approved for the Sunny Island 4548-US / 6048-US:

Manufacturer Axitec (Always check UL compatibility with manufacturer)

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
AXIstorage Li7S	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.04					Emergency power generator required			
AXIstorage Li8S	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware version 3.04					Emergency power generator required			
AXIstorage Li9S	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.06					Emergency power generator required			
AXIstorage Li10S	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.06					Emergency power generator required			

Manufacturer BMZ (Always check UL compatibility with manufacturer)

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
BMZ ESS 3.0	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.04								
BMZ ESS 7.0	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.04					Emergency power generator required			
BMZ ESS 9.0	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.06					Emergency power generator required			

[5)] Contact Aquion Energy in the event of servicing.

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
BMZ ESS X	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.06					Emergency power generator required			
BMZ ESS Z	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware version 3.04					Emergency power generator required			

Manufacturer BYD

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
B-BOX	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.7								

Manufacturer Leclanché

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
Apollion Cube	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 2.06					Emergency power generator required			

Manufacturer Tesvolt

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
Tesvolt lithium-ion battery-storage system (Always check UL compatibility with manufacturer)	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 3.17								
TS-series	✓	✓	✓	✓	✓	✓	✓	✓
As of firmware 1.06								

The hybrid (sodium)-ion batteries of the following manufacturers are approved for the Sunny Island 4548-US / 6048-US:

Manufacturer Aquion Energy[6)]

	Battery backup systems				Off-grid systems			
	1~	Split phase	3~	Double-split phase	1~	Split phase	3~	Double-split phase
Aspen 48S / 48M	✓	✓	✓	✓	✓	✓	✓	✓

[6)] Contact Aquion Energy in the event of servicing.

3 Recommended minimum configuration for use in different systems

The following minimum configurations are recommended for the following batteries in order to be able to use the rated power and overload capability of the Sunny Island devices. Deviation from these recommendations is possible, but may result in the system not being able to deliver the power specified in the datasheet of our devices. Especially for battery-backup or off-grid operations where no other AC sources are available, the specified configurations should be considered.

Some electrical loads (e.g., motors) may have high starting currents for a short time. These electrical loads may require a larger design with more battery modules or systems than specified by minimum configuration.

AXITEC AXIStorage Li 8S

Application		Inverters	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 1
		SI 8.0H	≥ 1
	Three-phase	SI 4.4M	≥ 2
		SI 6.0H	≥ 3
		SI 8.0H	≥ 3
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 1
		SI 8.0H	≥ 2
	Three-phase	SI 4.4M	≥ 3
		SI 6.0H	≥ 3
		SI 8.0H	≥ 4

AXITEC AXIstorage Li 8S with SI 6048US

Application		Inverters	Systems (towers)
Battery backup / off-grid operation	Single-phase	SI 6048US	≥ 2
	Split phase	SI 6048US	≥ 3
	Three-phase	SI 6048US	≥ 4
	Double-split phase	SI 6048US	≥ 6

BMZ ESS Z

Application		Inverters	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 1
		SI 8.0H	≥ 1
	Three-phase	SI 4.4M	≥ 2
		SI 6.0H	≥ 3
		SI 8.0H	≥ 3
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 1
		SI 8.0H	≥ 2
	Three-phase	SI 4.4M	≥ 3
		SI 6.0H	≥ 3
		SI 8.0H	≥ 4

BMZ ESS Z with SI 6048US

Application		Inverters	Systems (towers)
Battery backup / off-grid operation	Single-phase	SI 6048US	≥ 2
	Split phase	SI 6048US	≥ 3
	Three-phase	SI 6048US	≥ 4
	Double-split phase	SI 6048US	≥ 6

BYD Battery-Box Premium LVS

Application		Inverters	Battery modules	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 2	≥ 1
		SI 8.0H	≥ 3	≥ 1
	Three-phase	SI 4.4M	≥ 4	≥ 1
		SI 6.0H	≥ 6	≥ 2
		SI 8.0H	≥ 8	≥ 2
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 2	≥ 1
		SI 6.0H	≥ 4	≥ 1
		SI 8.0H	≥ 4	≥ 1
	Three-phase	SI 4.4M	≥ 8	≥ 2
		SI 6.0H	≥ 12	≥ 3
		SI 8.0H	≥ 12	≥ 3

BYD Battery-Box Premium LVL 15.4

Application		Inverters	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 1
		SI 8.0H	≥ 1
	Three-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 2 LVL 15.4 [7]
		SI 8.0H	≥ 2 LVL 15.4 [7]
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 1
		SI 6.0H	≥ 1
		SI 8.0H	≥ 1
	Three-phase	SI 4.4M	≥ 2 LVL 15.4 [7]
		SI 6.0H	≥ 3 LVL 15.4 [7]
		SI 8.0H	≥ 3 LVL 15.4 [7]

Cegasa eBick PRO 280

Application		Inverters	Battery modules	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 1	≥ 1
		SI 8.0H	≥ 1	≥ 1
	Three-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 2	≥ 1
		SI 8.0H	≥ 2	≥ 1
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 1	≥ 1
		SI 8.0H	≥ 1	≥ 1
	Three-phase	SI 4.4M	≥ 2	≥ 1
		SI 6.0H	≥ 2	≥ 1
		SI 8.0H	≥ 3	≥ 1

[7] During three-phase continuous operation with the nominal power of the inverter, derating of the battery may occur depending on the temperature and state of charge of the battery. Derating the battery temporarily reduces the power of the entire system.

Cegasa eBick 175 Ultra

Application		Inverters	Battery modules	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 1	≥ 1
		SI 8.0H	≥ 1	≥ 1
	Three-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 2	≥ 1
		SI 8.0H	≥ 3	≥ 1
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 1	≥ 1
		SI 6.0H	≥ 1	≥ 1
		SI 8.0H	≥ 1	≥ 1
	Three-phase	SI 4.4M	≥ 2	≥ 1
		SI 6.0H	≥ 3	≥ 1
		SI 8.0H	≥ 4	≥ 1

Exide Sonnenschein Lithium Module Pro

Application		Inverters	Battery modules	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 3	≥ 1
		SI 6.0H	≥ 4	≥ 1
		SI 8.0H	≥ 5	≥ 2 [8)]
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 4	≥ 1
		SI 6.0H	≥ 6	≥ 2 [8)]
		SI 8.0H	≥ 7	≥ 2 [8)]

GS HUB HomeHub

Application		Inverters	Battery modules	Systems (towers)
Self-consumption	Single-phase	SI 4.4M	≥ 2	≥ 1
		SI 6.0H	≥ 3	≥ 1
		SI 8.0H	≥ 3	≥ 1
	Three-phase	SI 4.4M	≥ 4 [7)]	≥ 1
		SI 6.0H	-	-
		SI 8.0H	-	-
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 3	≥ 1
		SI 6.0H	≥ 4	≥ 1
		SI 8.0H	≥ 4	≥ 1
	Three-phase	SI 4.4M	-	-
		SI 6.0H	-	-
		SI 8.0H	-	-

[8)] Towers can be partially filled.

Pylontech US2000/2000C

Application		Inverters	Battery modules	Battery-cable sets[9)]
Self-consumption	Single-phase	SI 4.4M	≥ 3	1
		SI 6.0H	≥ 4	2
		SI 8.0H	≥ 5	2
	Three-phase	SI 4.4M	≥ 9	3
		SI 6.0H	≥ 12	4
		SI 8.0H	≥ 15	5
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 3	2
		SI 6.0H	≥ 4	3
		SI 8.0H	≥ 5	3
	Three-phase	SI 4.4M	≥ 9	4
		SI 6.0H	≥ 12	6
		SI 8.0H	≥ 15	8

Pylontech US3000/3000C

Application		Inverters	Battery modules	Battery-cable sets[9)]
Self-consumption	Single-phase	SI 4.4M	≥ 2	1
		SI 6.0H	≥ 3	2
		SI 8.0H	≥ 4	2
	Three-phase	SI 4.4M	≥ 6	3
		SI 6.0H	≥ 9	4
		SI 8.0H	≥ 11	5
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 2	2
		SI 6.0H	≥ 3	3
		SI 8.0H	≥ 4	3
	Three-phase	SI 4.4M	≥ 6	4
		SI 6.0H	≥ 9	6
		SI 8.0H	≥ 11	8

[9)] The battery cable sets are needed for the connection to an inverter, a DC busbar or DC Combiner.

Pylontech UP5000

Application		Inverters	Battery modules	Battery-cable sets[9)]
Self-consumption	Single-phase	SI 4.4M	≥ 2	1
		SI 6.0H	≥ 3	2
		SI 8.0H	≥ 3	2
	Three-phase	SI 4.4M	≥ 5	3
		SI 6.0H	≥ 7	4
		SI 8.0H	≥ 9	5
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 2	2
		SI 6.0H	≥ 3	3
		SI 8.0H	≥ 4	3
	Three-phase	SI 4.4M	≥ 5	4
		SI 6.0H	≥ 8	6
		SI 8.0H	≥ 10	8

Pylontech US5000/US5000B

Application		Inverters	Battery modules	Battery-cable sets[9)]
Self-consumption	Single-phase	SI 4.4M	≥ 1	1
		SI 6.0H	≥ 2	2
		SI 8.0H	≥ 2	2
	Three-phase	SI 4.4M	≥ 3	3
		SI 6.0H	≥ 5	4
		SI 8.0H	≥ 6	5
Battery backup / off-grid operation	Single-phase	SI 4.4M	≥ 2	2
		SI 6.0H	≥ 2	3
		SI 8.0H	≥ 3	3
	Three-phase	SI 4.4M	≥ 4	4
		SI 6.0H	≥ 6	6
		SI 8.0H	≥ 8	8

ENERGY
THAT
CHANGES

SMA

www.SMA-Solar.com