

Batteries in Sunny Island Systems

List of Approved Batteries



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. This 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).

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

Manufacturer	Type	Firmware	Self-consumption systems			Battery backup systems			Off-Grid Systems			Certification / Proof of conformity according to the safety guidelines
			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	
ADS-TEC	Mini StoraXe®		✓	-	-	✓	-	Observe the recommendation of the manufacturer regarding the parameter selection for different Sunny Islands	-	-	-	Safety guidelines UNT 38.3
Akasol	neoQube		✓	-	-	-	-	-	-	-	-	Not specified
	neoRack		✓	✓	-	✓	✓	• Only for Sunny Island 3.0M and 4.4M • Pay attention to the number of (battery) modules*	✓	✓	• Only for Sunny Island 3.0M and 4.4M • Pay attention to the number of (battery) modules*	Not specified
Axitec	AXITEC AXIstorage Li 7S	2.04	✓	✓	-	✓	✓	-	✓	✓	-	Not specified
BMZ	BMZ ESS 3.0	2.04	✓	✓	-	✓	✓	-	✓	✓	-	Not specified
	BMZ ESS 7.0	2.04	✓	✓	-	✓	✓	-	✓	✓	-	Not specified
BYD	B-BOX	2.7	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Safety guidelines TÜV Süd
Deutsche ACCUmotive	Mercedes-Benz Energiespeicher Home	29.30 - 5.X	✓	-	Pay attention to the number of (battery) modules*	✓	-	• Only for Sunny Island 3.0M and 4.4M • Pay attention to the number of (battery) modules*	-	-	-	Safety guidelines UNT 38.3
Hoppecke	sun powerpack premium	1.1.0 r11767	✓	✓	-	✓	✓	Pay attention to the number of (battery) modules*	✓	✓	Pay attention to the number of (battery) modules*	Not specified
IBC	SolStore X.X Li	2.04	✓	✓	-	✓	✓	-	✓	✓	-	Not specified
Leclanché	Apollion Cube	2.04	✓	✓	-	✓	✓	-	✓	✓	-	Not specified
	TiBox 3.2		✓	-	Recommended for Sunny Island 3.0M	-	-	-	-	-	-	Not specified
LG Chem	RESU 5.0		✓	-	-	-	-	-	-	-	-	Not specified
	RESU 6.4 (Plus Extension Pack)		✓	-	Recommended for Sunny Island 3.0M and 4.4M	✓	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Not specified
	RESU 3.3		✓	-	Recommended for Sunny Island 3.0M	-	-	-	-	-	-	Not specified
	RESU 6.5		✓	-	Recommended for Sunny Island 3.0M and 4.4M	✓	-	Only for Sunny Island 3.0M	-	-	-	Not specified
	RESU 10		✓	-	-	✓	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Not specified
	RESU Plus Extension Kit		✓	-	-	✓	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Not specified

Manufacturer	Type	Firmware	Self-consumption systems			Battery backup systems			Off-Grid Systems			Certification / Proof of conformity according to the safety guidelines
			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	
Liacon	LV-Series		✓	-	-	-	-	-	-	-	-	Not specified
SAFT	Intensium Home		✓	-	-	-	-	-	-	-	-	Not specified
Schletter	eSafe©	1.0.35	✓	✓	Pay attention to the number of (battery) modules*	✓	✓	Pay attention to the number of (battery) modules*	✓	✓	Pay attention to the number of (battery) modules*	Not specified
Sony	Controller UJ1004C Module FORTELION UJ1001M		✓	✓	Pay attention to the number of (battery) modules*	✓	✓	Pay attention to the number of (battery) modules*	✓	✓	Pay attention to the number of (battery) modules*	Not specified
Tevolt	Tevolt Lithium-Ion storage Li10	3.17	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Not specified
	Tevolt Lithium-Ion storage starting at Li 20	1.11	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Not specified

* Note that the battery modules have a defined nominal current. In order to achieve the appropriate nominal and overload current of the different Sunny Islands, several modules must be connected in parallel. Only then is the full functionality provided.

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

Manufacturer	Type	Firmware	Self-consumption systems			Battery backup systems			Off-Grid systems			Certification / Proof of conformity according to the safety guidelines
			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	
Aquion Energy*	Aspen 48S / 48M		✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Not specified

* If services are required, contact Aquion Energy.

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

Manufacturer	Type	Firmware	Self-consumption systems			Battery backup systems			Off-Grid systems			Certification / Proof of conformity according to the safety guidelines
			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	
BMZ	BMZ ESS 3.0	2.04	✓	✓	Always check UL compatibility with manufacturer	✓	✓	Always check UL compatibility with manufacturer	✓	✓	Always check UL compatibility with manufacturer	Not specified
	BMZ ESS 7.0	2.04	✓	✓	Always check UL compatibility with manufacturer	✓	✓	Always check UL compatibility with manufacturer	✓	✓	Always check UL compatibility with manufacturer	Not specified
BYD	B-BOX	2.7	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Safety guidelines TÜV Süd
Tesvolt	Tesvolt lithium-ion storage	3.17	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands Always check UL compatibility with manufacturer	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands Always check UL compatibility with manufacturer	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands Always check UL compatibility with manufacturer	Not specified

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

Manufacturer	Type	Firmware	Self-consumption systems			Battery backup systems			Off-Grid systems			Certification / Proof of conformity according to the safety guidelines
			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	
Aquion Energy*	Aspen 48S / 48M		✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	✓	✓	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Not specified

* If services are required, contact Aquion Energy.