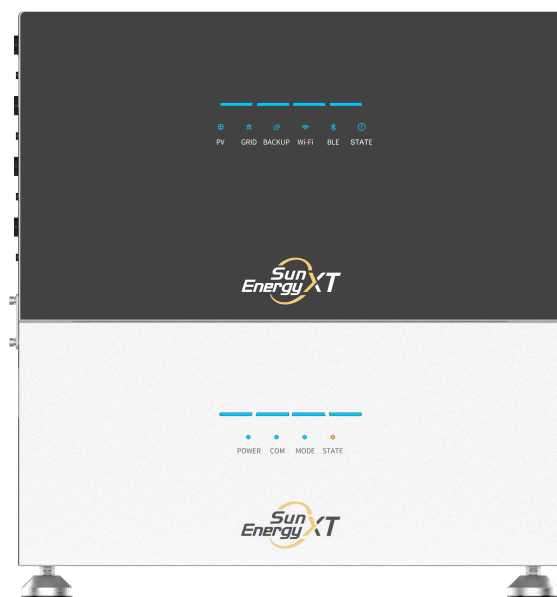




Technical Specifications of the Head Storage

Model		SunEnergyXT 500 PRO ¹⁾	SunEnergyXT 500
PV Input (PV) ²⁾	PV Breakdown Voltage (V)	100	100
	MPPT Voltage (V)	20 ~ 60	20 ~ 60
	MPPT Power (W)	625 × 4 or 800 × 3	625 × 4 or 800 × 3
	Max PV Input Current (A)	22 (4 PV inputs; value per PV input)	22 (4 PV inputs; value per PV input)
	PV Isc (A)	25 (4 PV inputs; value per PV input)	25 (4 PV inputs; value per PV input)
Battery Parameters	Battery Type	LiFePO4	LiFePO4
	Rated Capacity (Ah)	314	314
	Rated Energy (Wh)	5024	5024
	Rated Charge / Discharge Power (W)	2400 / 2600	2400 / 2600
Backup Output (AC)	Rated Output Voltage (Vac)	230	230
	Output Waveform	Sine Wave	Sine Wave
	Output Voltage Range	± 1 %	± 1 %
	Output Frequency (Hz)	50 / 60	50 / 60
	Output Frequency Range (Hz)	± 0.1	± 0.1
	Rated Output Apparent Power (W)	2400	2400
Grid Output (AC)	Rated Output Voltage (Vac)	230	230
	Output Voltage Range (V)	184 ~ 253 V	184 ~ 253 V
	Output Frequency (Hz)	50 / 60	50 / 60
	Output Frequency Range (Hz)	47.5 ~ 51.5 / 57.5 ~ 61.5	47.5 ~ 51.5 / 57.5 ~ 61.5
	Rated Output Power (W)	2400	800

Model		SunEnergyXT 500 PRO ¹⁾	SunEnergyXT 500
Grid Output (AC)	Output Power Factor	0.8 lagging ~ 0.8 leading	0.8 lagging ~ 0.8 leading
	Anti-Islanding Protection	Supported	Supported
Grid Charging (AC)	AC Max Charging Power (VA)	2400	2400
	AC Max Charging Current (A)	12	12
Grid/Backup Switching	UPS Mode	≤ 10 ms	≤ 10 ms
	Non-UPS Mode	< 2 s	< 2 s
Certifications	Safety Standards	IEC 62109-1/2; IEC 62619; IEC 60730	IEC 62109-1/2; IEC 62619; IEC 60730
	EMC	IEC 61000	IEC 61000
	Cybersecurity Certification	EN 18031	EN 18031
	Grid Connection Certification	VDE 4105	VDE 4105
	Transport	UN38.3	UN38.3
Other Parameters	Cooling Requirements	Natural Cooling	Natural Cooling
	Ingress Protection	IP65	IP65
	Protective Class	Class I	Class I
	Fire Protection System	Integrated Automatic Aerosol Fire Suppression System	Integrated Automatic Aerosol Fire Suppression System
	Operating Ambient Humidity (%)	95	95
	Operating Temperature (°C)	-20 ~ 55 °C. Power derating above 45 °C.	-20 ~ 55 °C. Power derating above 45 °C.
	Storage Temperature (°C)	-20 ~ 45 °C (1 month); 0 ~ 35 °C, suitable for long-term storage and beneficial to the service life of the device.	-20 ~ 45 °C (1 month); 0 ~ 35 °C, suitable for long-term storage and beneficial to the service life of the device.
	Max Operating Altitude (m)	< 2000	< 2000
	Maintenance	Recommended: charge / discharge once every 3 months; at the latest, a charge / discharge cycle is required after 6 months.	Recommended: charge / discharge once every 3 months; at the latest, a charge / discharge cycle is required after 6 months.
	Head Storage Dimensions (L × W × H)	536 × 379 × 307 mm	536 × 379 × 307 mm
	Package Dimensions (L × W × H)	630 × 502 × 434 mm	630 × 502 × 434 mm
	Net Weight (kg)	58 ± 1	58 ± 1
	Gross Weight (kg)	60 ± 1	60 ± 1
	Cycle Life ¹⁾	≥ 10,000 cycles	≥ 10,000 cycles

1) The SunEnergyXT 500 PRO AC Core is based on the SunEnergyXT 500 PRO.

2) The MPPT function is not activated by default. A paid upgrade service is required for activation of the MPPT function.

3) 25 ± 2 °C, 80 % DoD, 0.5C charge / 0.5C discharge, 70 % remaining capacity (EoL).

Technical Specifications of the Expansion Storage

Model		SunEnergyXT B500
Battery Parameters (DC)	Battery Type	LiFePO4
	Rated Capacity (Ah)	314
	Rated Energy (Wh)	5024
	Rated Charge / Discharge Power (W)	2400 / 2600
Certifications	Safety Standards	IEC 62619; IEC 60730
	EMC	IEC 61000
	Cybersecurity Certification	EN 18031
	Grid Connection Certification	VDE 4105
	Transport	UN38.3
Other Parameters	Cooling Requirements	Natural Cooling
	Ingress Protection	IP65
	Protective Class	Class I
	Fire Protection System	Integrated Automatic Aerosol Fire Suppression System
	Operating Ambient Humidity (%)	95
	Operating Temperature (°C)	-20 ~ 55 °C
	Storage Temperature (°C)	-20 ~ 45 °C (1 month); 0 ~ 35 °C, suitable for long-term storage and beneficial to the service life of the device.
	Max Operating Altitude (m)	< 2000
	Maintenance	Recommended: charge / discharge once every 3 months; at the latest, a charge / discharge cycle is required after 6 months.
	Dimensions (L × W × H)	536 × 314 × 242 mm
	Package Dimensions (L × W × H)	618 × 395 × 364 mm
	Net Weight (kg)	43.5 ± 1
	Gross Weight (kg)	45.5 ± 1
	Cycle Life ¹⁾	≥ 10,000 cycles

1) 25 ± 2 °C, 80% DoD, 0.5C charge / 0.5C discharge, 70% remaining capacity (EoL).