



Sunny Tripower Storage X



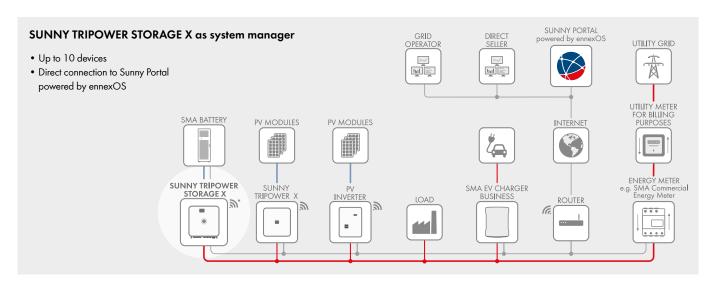
Technical data - subject to changes

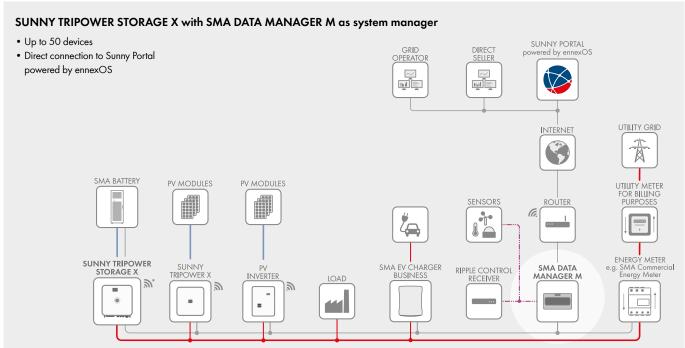
Technical data	Sunny Tripower Storage X 30	Sunny Tripower Storage X
Battery connection (DC)		
Max. DC power	30600 W	51000 W
DC voltage range	200 V to 980 V	
Max. usable input current (I _{pcr} , max)	150 A	
Battery type	Li-ion	
Grid connection (AC)		
Rated power at nominal voltage	30000 W	50000 W
Max. apparent AC power	30000 VA	50000 VA
Max. reactive power	30000 var	50000 var
Nominal AC voltage	400 V	,±15%
AC voltage range	340 V to 477 V	
Rated grid frequency	50 Hz / 60 Hz	
Power frequency range	44 Hz to 66 Hz	
Max. output current	45.6 A per line conductor	75.5 A per line conductor
Power factor at rated power / adjustable displacement power factor	·	to 0 underexcited
Feed-in line conductors / connection line conductors	3 (L1, L2, L3) / 5 (L1, L2, L3, N, PE)	
Efficiency	- (, -=,, , -	(,,,,
Max. efficiency / European Efficiency	98.0% / 97.6%	98.0% / 97.2%
Protective devices	7 5.5,5 7 77 .575	7 0.070 77 .270
Grid monitoring		
Overtemperature / battery deep discharge	• / •	
AC short-circuit current capability / galvanically isolated	• / -	
All-pole-sensitive residual-current monitoring unit	• / -	
Protection class (according to IEC 62109-1)/overvoltage category (according to IEC 60664-1)	I / DC: II; AC: III	
General data	17 00.	n, AC. III
Dimensions (W / H / D)	772 / 837 3 / 443 8 mi	n (30 4 / 33 / 17 5 inch)
Weight	772 / 837.3 / 443.8 mm (30.4 / 33 / 17.5 inch) 104 kg (229 lb)	
Operating temperature range	-25°C to +60°C (-13°F to +140°F) with derating	
Noise emission, typical	69 dB(A)	
Self-consumption	25 W (if AC + DC are connected)	
Topology / cooling concept	Three-phase / active	
Degree of protection (according to IEC 60529 / UL 50E)	IP65 / NEMA 4X	
Climatic category (according to IEC 60721-3-4)	4K4 / 4Z4 /4S2 / 4M3 / 4C2 / 4B2	
Max. permissible value for relative humidity (non-condensing)	95%	
Features / functions / accessories	,	570
DC connection / AC connection	Terminal lug (up to 300 mm²) /	screw terminal (up to 150 mm²)
Communication / protocols	Terminal lug (up to 300 mm ²) / screw terminal (up to 150 mm ²) Modbus (SMA, Sunspec), SMA Speedwire, Webconnect	
LED display (Status / Fault / Communication)	Modbus (SMA, Sunspec), SMA Speedwire, Webconnect • / • / •	
Energy management functions	Self-consumption optimization, peak load shaving, multi-use	
Web User Interface	Jen-consumption opiniization	n, peak load sharing, moni-ose
Retrofitting in systems with external inverters		
Menoning in systems with external inventers	Supply Portal pay	vered by enneyOS
System monitoring	Sunny Portal powered by ennexOS Ethernet (Modbus)	
,	, , ,	(Madhus)
System monitoring Bus battery interface Backup / SPS	Ethernet	(Modbus)

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Technical data	Sunny Tripower Storage X 30	Sunny Tripower Storage X 50
System manager function		
Total number of supported devices when a Sunny Tripower Storage is the system manager 1)	10	
Total number of supported devices when a SMA Data Manager M is the system manager 1) 2)	50	
Centralized commissioning of all devices in the system	•	
Remote parameterization of SMA devices with Sunny Portal powered by ennexOS	•	
Model type number	STPS30-20	STPS50-20

¹⁾ Supported devices: SMA EV Charger Business, PV inverter, Sunny Tripower and Energy Meter 2) In preparation





Efficiency curve

