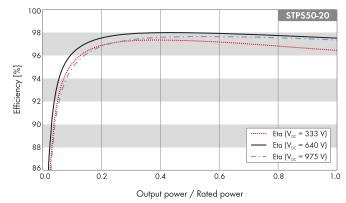
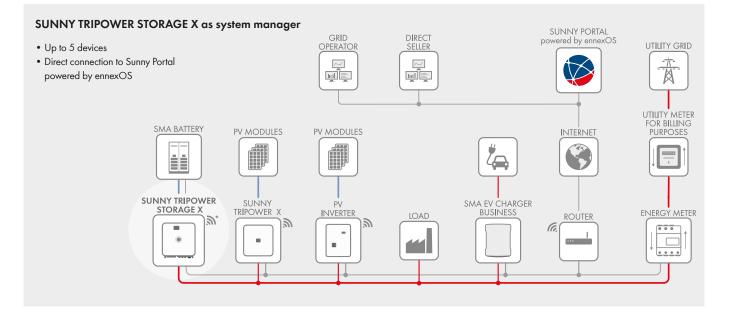
SUNNY TRIPOWER STORAGE X

Technical data	Sunny Tripower Storage X 30	Sunny Tripower Storage X 5	
Battery connection (DC)			
Max. DC power	30600 W	51000 W	
DC voltage range	200 V	to 980 V	
Max. usable input current (I _{DC'} 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	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		d to 0 underexcited	
Feed-in line conductors/connection line conductors	3 (L1, L2, L3) / 5 (L1, L2, L3, N, PE)		
Efficiency	0 (11, 12, 10) / 0		
Max. efficiency/European efficiency	98.0% / 97.6%	98.0% / 97.2%	
Protective devices	70.0707 77.070	70.0707 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 DC.	n, AC. m	
Dimensions (W/H/D)	770 / 027 2 / 442 0	= (20.4/22/175 = ab)	
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 Degree of protection (according to IEC 60529 / UL 50E)	Three-phase/active IP65 / NEMA 4X		
Climatic category (according to IEC 60721-3-4)	4K4 / 4Z4 /4S2 / 4M3 / 4C2 / 4B2 95%		
Max. permissible value for relative humidity (non-condensing)	Ý	3 %	
Features/functions/accessories			
DC connection/AC connection	Screw terminal / screw terminal Modbus (SMA, Sunspec), SMA Speedwire, Webconnect		
Communication/protocols			
LED display (Status / Fault / Communication)	• / • / •		
Energy management functions	Self-consumption optimization, peak load shaving, multi-use		
Display / web user interface / WLAN ³	○/●/●		
Retrofitting in systems with external inverters			
System monitoring	Sunny Portal powered by ennexOS		
Bus battery interface	Ethernet (Modbus)		
Backup	In preparation		
System manager function		5	
Total number of supported devices when a Sunny Tripower Storage is the system manager ¹¹	5		
Total number of supported devices when a SMA Data Manager M is the system manager ¹⁾ or via eProduct ²⁾	50		
Centralized commissioning of all devices in the system	•		
Remote parameterization of SMA devices with Sunny Portal powered by ennexOS	•		
Type designation	STPS30-20	STPS50-20	

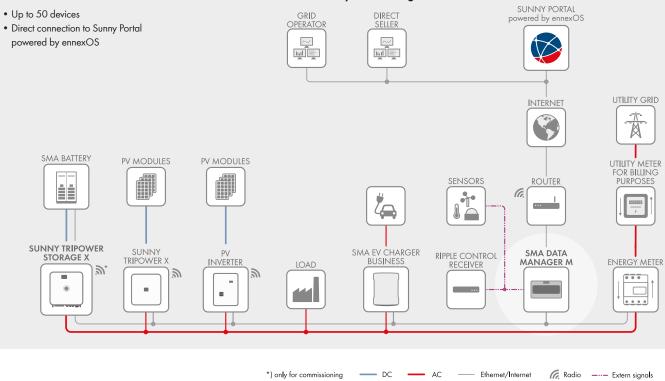
Standard equipment O Optional – Not available Data at nominal conditions Last revised: 03/2023
Supported devices: SMA EV Charger Business, PV inverter, Sunny Tripower, and Energy Meter
Product in preparation
Sony for commissioning

Efficiency curve





SUNNY TRIPOWER STORAGE X with SMA DATA MANAGER M as system manager



SMA Solar Technology AG