



AMPERE TOWER S

Welcome to the new energy model. Now you can produce your own energy, save and consume it whenever you want. Tower S, designed for users with medium and high energy consumption, is the perfect system to achieve maximum energy efficiency and independence.

More information on ampere-energy.com

✓ All in one

Everything you need in a single Plug&Work system. Hybrid inverter, battery modules, EMS (Energy Management System) and AMPi® (Artificial Intelligence software). Design and technology together to make life easier. Welcome to comfort!

✓ Energy Independence & Artificial Intelligence

The Ampere Energy systems with AMPi® (Artificial Intelligence software) are designed to achieve maximum energy independence. Welcome to freedom!

✓ MyAmpere

Thanks to our APP "MyAmpere" (iOS / Android / Web) you can monitorize and manage your system remotely from any mobile device and / or Internet. Welcome to the future!

✓ Most energy efficiency and savings

Day and night. With sun, and even without sun. The Ampere systems, connected to Internet, thanks to their EMS and AMPi® software, perform a meteorological and consumption forecast and track the price of kWh. This allows the storage and intelligent purchase of energy increasing the profitability of the whole system and optimizing the resources to achieve the maximum possible savings and efficiency. Welcome to the Smart Self-Consumption!

AMPERE TOWER S

General Specifications	TOWER S 12.3 (PV)	TOWER S 12.5 PV
IP degree	IP 22	
Working temperature	-5°C to +40°C	
Relative Humidity	5% - 85%	
Dimensions	1880 x 740 x 190 mm	
Weight	150 kg	155 kg
Communication Ports	Ethernet, RS-485 MODBUS, USB, WiFi (USB-WiFi dongle included)	
I/O Ports (isolated)*	1x NO/NC Output (Genset ON/OFF), 4x NO Output (Auxiliary)	
Energy Management	EMS with AMPi software	
Energy Meter	1-phase bidirectional energy meter included (max 45A _{RMS} - 6 mm ² wire) RS-485 MODBUS	
Warranty	10 years (except Inverter 5 years)	

Battery Module	TOWER 12 S
Usable capacity (kWh)	12 kWh
Usable capacity (Ah)	232 Ah
Depth of Discharge	0.95
Type	Li-Ion
Nominal voltage	51.8 V
Working voltage	42 - 58.8 V
Number of cycles (95% DoD, 25°C / 77°F)	> 6.000
Estimated lifetime	> 16 years

Power converter	TOWER S 12.3 (PV)	TOWER S 12.5 PV
Topology	Bidirectional hybrid inverter	
Nominal power**	3 kW	5 kW
MPPT Voltage*** (PV version)	330 - 450 V	
Operating Voltage Range*** (PV version)	300 - 550 V	
Maximum Current*** (PV version)	20 A	30 A
Number of strings*** (PV version)	2	
Number of MPPT*** (PV version)	1	
Nominal AC Voltage	230 VRMS	
Nominal AC Current	13 ARMS	21.5 ARMS
Nominal Frequency	50 / 60 Hz	

EMC, Safety and Regulations	TOWER 12 S
Battery cells	IEC 62133
Battery modules	CE / IEC 62619
Transport	UN 38.3
EMC/Safety	EN 61000-6-1/2/3/4, EN 61000-3-11/12, EN 62109-1/2, IEC 62103, EN 50178, FCC Part 15, AS3100, EN 61439-1/2011, EN 61439-2/2011
Grid connection regulations	RD1699/2011, DIN V VDE V 0126-1, EN 50438, CEI 0-21, VDE-AR-N 4105/2011-8, G59/2, G83/2, AS4772, AS4773, IEC 62116, IEC 61727, UNE 206007-1, UNE 217001/2015 IN

* Functionality and specifications TBD

** Instantaneous power delivery is managed by the EMS (Energy Management System) depending on the available PV power and the battery status.

*** PV input not available in non-PV versions. External fuses and overvoltage protections for PV plant are recommended, but not included.

NOTE: PV version available for Tower S 12.3. Denomination: Tower S 12.3 PV.

DISCLAIMER: Dimensions and weight can be modified without previous notice in order to improve the product.