

MSP POWER HUB

MPH - 5/10/15kW

The MSP Hub is a fully integrated energy storage system providing hybrid power for Commercial, Residential and Agricultural applications.

The Power Hub is our all in one solar and battery inverter and Energy Storage system.

The system is designed using our all in one 5kW hybrid storage inverters for AC generation and battery storage from Solar.

The MPH couples MSP's new all in one Inverter with Tesvolt Lithium Storage TS batteries.

The Battery system consists of an Active Power Unit (APU) and 4.8kW Battery Modules. Using a single APU with 8 x 4.8kWh battery modules provides a total of 38.6 kWh of stored energy

The system can be operated in paralleled producing a combined 10kW of power from a combined maximum solar input of 20kW. It is possible to expand the system to 15kW of generated power in the current housing using 3 inverters within a single housing.

Features

- New Tesvolt Lithium Energy Storage
- AC Breaker
- UL Approval
- DC Disconnect
- Integrated DC input Fuses
- Black Start
- On/Off Grid & UPS
- Both Off & On grid compatible.
- Solar MPPT



5/10/15kW options

Solar and Battery inverter in one

Best power to weight ratio on the market

Indoor and out door housing options

Fully integrated no hidden extras/costs

MPH 5-15kW

Battery Specifications

Technical data TESVOLT battery cells

C-Rate	1C (4C max. 20 sec.)
Cells	Lithium-NMC prismatic (Samsung SDI)
Cycles @ 100% DoD 70% EoL 23°C +/-5°C 1C/1C	6,000
Cycles @ 100% DoD 70% EoL 23°C +/-5°C 0,5C/0,5C	8,000
Efficiency (battery)	up to 98%
Operating voltage	44.8 to 58.1V
Operating temperature	-10 to 50°C
Humidity	0 to 85% (non-condensing)
Certificates/norms	UL 1642, UN 38.3
Warranty	10-year performance & 5-year product warranty
Recycling	free take-back scheme from TESVOLT

Inverter Specifications

RATED OUTPUT POWER	5000 W
Nominal Output Voltage	208/220/230/240 VAC
Nominal Output Current	21A
Max Conversion Efficiency	(DC/AC) > 96%
PV INPUT (DC)	
Working DC V range	200VDC ~900 VDC
Nom DC Voltage/Max DC V	720 VDC
MPPT Voltage Range	250 VDC~ 850 VDC
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Max Charging Current	Default 60A, 5A - 100A

Environmental Specifications

Humidity	0 ~ 90% RH
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m*

Cost Savings and payback

For the first time, we give clients the unique opportunity to produce and consume their own electricity. It is great to be independent!

- Reduced CAPEX for renewable energy sources through all in one battery and solar inverters
- Peak shaving of local loads to reduce costs during periods when energy rates are high or to reduce demand metering costs
- Eliminates losses from grid fluctuations or outages
- Increase Self consumption lowering electricity bills.

Tesvolt Energy Storage

Tesvolt Energy storage can store energy very quickly and release it again just as quickly. With a discharge rate of 1C – and even 4C for short periods. Tesvolt not only offer flexible configuration options at the moment of purchase – thanks to the innovative Active Battery Optimizer technology, the capacity can also be expanded years later.

- **Customised charging speeds**
- **Long service life**
- **Impressive 8000 full cycle life**

Contact

Thank you for reading, if you have any questions or want to discuss further please



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