EFFEKTA®

Lithium Storage System Pylontech **UP2500 – 24V**

Solar Lithium Storage System 24V / 2.84kWh

The UP2500 is a state-of-the-art lithium storage system: with the highest level of safety and a long service life - even with regular deep discharge - they meet the high demands placed on solar storage systems. The fast charging and discharging properties typical of lithium batteries make it possible to store or release a large amount of energy in a short period of time. This predestines the UP2500 for use in solar storage solutions for private households.



Properties

- High cycle stability with over 6000 charge / discharge cycles
- High depth of discharge (DoD) up to 95% @ 25°C
- Design life up to 15 years
- Built-in soft start function to avoid power surges when the inverter starts up
- Absolutely failsafe lithium technology - lithium iron phosphate / LiFePo4
- Very high storage capacity ratio – lightweight and compact design
- Horizontal or vertical set-up, optionally also 19“-rack mounting
- Integrated battery management system
- Modular system for individual scaling
- 7-year manufacturer warranty PYLONTECH



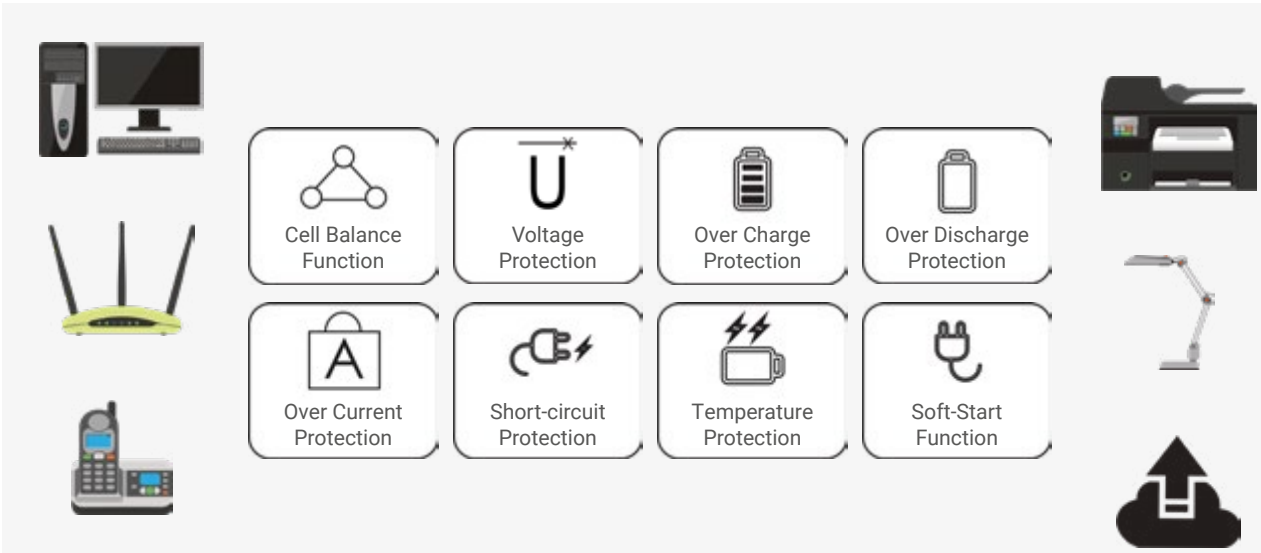
UP2500 battery modules can be easily expanded like a modular system

The storage modules comprise a lithium iron phosphate (LiFePo4) accumulator and an integrated battery management system (BMS) which monitors the status of the individual cells. In this way, the BMS prevents the premature failure of a battery due to environmental factors.

The modular layout permits individual configuration of the storage system to achieve the required capacity level, simply by connecting the desired number of modules together.

UP2500 as an ideal energy storage system are ideally suited as a storage solution for office computers, data centers, equipment in commercial buildings, banks, hospitals, schools, train stations, airports, and telecommunications...

Furthermore, the UP2500 storage solution is perfect for solar or island operation with battery support.



Specifications

Model	UP2500
Technology	Lithium iron phosphate (LiFePo4)
Nominal voltage	24V
Rated capacity	118Ah / 2.84kWh
Usable capacity (95% DoD)	106Ah / 2.55kWh
Max. quantity of modules / battery string	20
Max. quantity of battery strings in parallel	N/A
Discharge voltage range	23.3 ... 28.5V
Charging voltage range	28.2 ... 28.5V
Recommended charge / discharge current	55A
Maximum charge / discharge current	85A / Peak: 100A for 15 sec.
Communication	RS485, CAN
Weight	26.5kg
Dimensions	442 x 420 x 120mm
Temperature range at charge	+0... +50°C
Temperature range during discharge	-10... 50°C
Design life	> 15 years @ 25°C
Cycle life	> 6000 @ 25°C
BMS / monitoring	Integrated battery management system in each module
Certification	CE / UN38.3