

— Energy storage system · Li-ion

Pegasus Li+ and Sphinx Li+ energy storage systems

Hybrid inverter and lithium battery pack in one stackable unit, 3, 5 and 6 kVA.

3 / 5 / 6 kVA · 48 V

LiFePO4 battery

Grid export ready



3.6–19.2 kWh

storage capacity

>3000

battery cycles

95 %

MPPT efficiency

1.5 ton

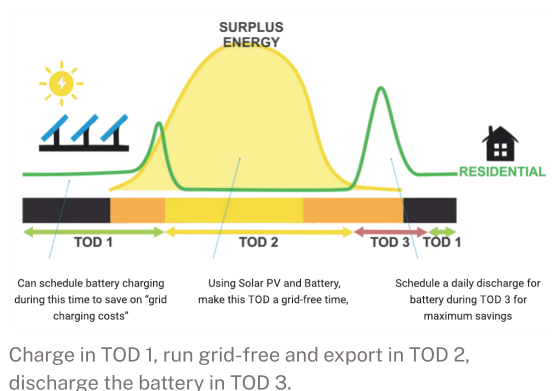
air conditioner it can run

— Overview

Premium solar storage for every home

The Pegasus Li+ and Sphinx Li+ series are Statcon Energiaa's premium solar energy storage systems: robust hybrid inverter technology combined with a Li-ion energy pack, with enough punch to run heavy loads like a 1.5-ton air conditioner.

This grid-synchronised, storage-based solar pack makes full use of solar power compared with conventional solar PCUs. Store electricity by time of day, export to the grid during lean load periods or when you are away, and cut high electricity bills.



Timed scheduling

Programmable time-based schedules, including charge inhibit, sleep mode, forced islanding, export control and load following. All schedules can be controlled remotely.

Plug and play: a drawing-room solution

Minimal footprint with zero installation effort, an in-built battery, and a design that suits the look of your home or building.

Synchronises with the grid for export

Suited to net-metering, with a built-in time-of-day feature and no need for additional export control.

Runs your heavy loads

Runs heavy loads during a power cut and can sustain a 1.5-ton air conditioner.

Applications

Residences and apartments

Bungalows, villas and farmhouses

Bank ATMs

Shops

Clinics

Gyms

Small offices

Technical specifications

	3 kVA / 48 V / 1P	5 kVA / 48 V / 1P	6 kVA / 48 V / 1P
Battery pack			
Storage capacity range	3.6–19.2 kWh	7.2–19.2 kWh	7.2–19.2 kWh
Battery type / BMS	LiFePO4 (LFP) / active BMS, built in		
Max. charge / discharge rate	0.5C / 1C		
No. of cycles	>3000		
MPPT solar charge controller			
MPPT topology / input PV capacity	Buck type / same as inverter capacity		
Max. open-circuit voltage (Voc)	190 V DC		
MPPT input range (Vmp)	75–160 V DC		
MPPT efficiency	95%		
Active front-end inverter			
Inverter type	Hybrid with grid export features		
Output voltage / frequency (standalone)	230 V AC ±2% / 50 Hz ±2%		
Output power	Same as inverter capacity		
Overload: 60 s / 30 s / 5 s	101–110% / 111–125% / 126–150%		
Auto bypass / manual bypass	Provided		
Grid synchronisation	Provided		
Grid charging / power export to grid	Enable / disable (optional)		
Grid import / export power	Same as inverter capacity		
Grid input voltage	230 V AC (+10% / –20%)		
Phase / connection	1 phase / 2 wire		
User interface			
Display	Graphical LCD with backlight		
Battery parameters	Voltage, current, battery state		
PV parameters	Voltage, MPPT charger output amps, power, cumulative energy		
Grid parameters	Voltage, frequency, power, power factor, average power, cumulative exported energy		
Load parameters	Voltage and current, frequency, power, export kWh		
System parameters	Mode of operation, active faults, system mimic		
LED indications	Mains on, alarm, buzzer mute		
Protections			
PV side	Reverse polarity, PV power limit, surge protection (MOV)		
Battery side	Reverse polarity, over / under voltage, current limit		
Grid side	Over / under voltage, over / under frequency, surge protection (MOV)		
Load side	Overloads, short circuit, surge protection (MOV)		
System	Over-temperature trip, breakers at all inputs, manual bypass		
Monitoring (optional) and miscellaneous			
Remote monitoring	GPRS / Wi-Fi based RMS available		
Degree of protection	IP21		
Environment temperature	0–50 °C without derating (recommended 0–40 °C)		
Humidity / altitude	Max. 95% non-condensing / 1000 m above sea level		
Footprint (mm)	650 x 630		