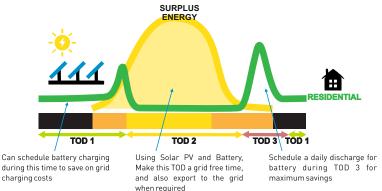


Energiaa's ESS Pegasus Li+ & Sphinx Li+ series is the new stunning and powerful premier segment Solar Energy Storage System for the Indian Market. A perfect combination of Energiaa's robust Hybrid inverter technology with an energy pack of up to 14.4KWhr of Li Ion battery provides enough punch to run your 1.5T air conditioner for long hours.

It is set to revolutionise the immense domestic market, making solar accessible to every household. The grid synchronised plus storage based solar inverter promises 100% utilisation of power as compared to conventional solar PCUs.

Now you can store the electricity according to time of day and export to grid during lean load periods or when you are not at home. Run your loads on its heavy-duty inverter system and save on high electricity bills.











Scheduling Features

Controlled scheduling via keypad or PLC Battery charging according to TOD Programmable night saving mode



Active Front End Technology

Low distortion O/P for critical loads Facility of Export control of power Export excess PV power to grid through grid synchronisation



Battery Pack

Faster charging rate and low discharging rate Is not affected by memory Effect and high temperatures Guaranteed 3000 cycles and up to 5000 cycles at 25°C at 50% DOD



Heavy Load capacity

Runs your Air conditioner for more than 2 hours in case of a power cut & ensures that you never remain without power. GPRS Based web monitoring available

Applications





1/1 Shops







Gyms

Small Offices





ENERGY STORAGE SYSTEM 3KVR / 5KVR | LI-ION BRSED







Rattary Type	LiFePo₄ (LFP Type)				
Battery Type Storage Capacity	3.6kWhr	7.2kWhr	10.8kWhr	14.4kWhr	
BMS	3.6KWIII 7.2KWIII 10.6KWIII 14.4KWIII 14.4KWIII				
Max. Charge / Discharge Rate	O.5C/1C Rate				
No. of Cycles	3000 ×3000				
MPPT SOLAR CHARGE CONTROLLER	, -		>3000		
MPPT Topology	Buck Type				
Input PV Capacity (in KW)	Same as Inverter Capacity				
Max. Open Circuit Voltage (Voc)	185V DC				
MPPT Input Range	66-147V DC				
MPPT Efficiency	95%				
ACTIVE FRONT END INVERTER	7370				
Power Rating	3KVA 5KVA				
	JAVA JAVA				
Inverter Type Output Voltage (Standalone Mode)	Hybrid 230VAC +/-2%				
Output Voltage (Standatone Mode) Output frequency (Standalone Mode)	50Hz +/-2%				
Output Power	Samo as Invertor Canacity				
Overload 60sec 30sec 5sec	Same as Inverter Capacity 110% 125% 150%				
Auto Bypass	Provided				
Grid Synchronisation	Provided				
Grid Charging	Enable / Disable (Optional)				
Export to Grid	Enable / Disable (Optional)				
EXPORT TO OTTO		Lilable / Di			
Grid Import / Export Power	Same as Inverter Capacity				
Grid Input Voltage	230VAC +10% & -20%				
Phase / Connection	1Phase / 2Wire				
USER INTERFACE	- I need / Zime				
Display Interface	Graphical LCD with back light (128×64)				
Battery Parameters	Voltage, Current				
PV Parameters	Voltage MPPT Charger O/P Amps, Power Energy, Cumulative Generation				
Grid Parameters	Voltage, MPPT Charger O/P Amps, Power, Energy, Cumulative Generation Voltage, Frequency, Power, Power Factor, Average Power, Cumulative Exported Energy				
Load Parameters	Voltage, Phase Current, Freguency, Power, Power Factor, Average Load				
System level Parameters	Mode of Operation, Active Faults, Heat Sink / IGBT temperature, System Mimic				
LED Indications	Mains On, Alarm, Buzzer Mute				
PROTECTIONS					
PV Side	Reverse Polarity Surge Protection (Class D)				
Battery Side	Reverse Polarity, Surge Protection (Class D) Reverse Polarity, Over / Under Voltage, Current Limit, Temperature Compensation				
Grid Side	Over/ Under Voltage. Over/ Under Freguency. Surge Protection (Class D)				
Load Side	Overloads, Short circuit				
System Protection	Over Temperature trip, Breakers at all Inputs				
MONITORING (OPTIONAL)					
GPRS	Web based remote monitoring system				
GPRS MISCELLANEOUS Degree of Protection Environment Temperature	Web based remote monitoring system				
Degree of Protection	IP-21				
Environment Temperature	0 to 55° (without derating)				
Humidity	Max 95% non condensing				
Altitude	· 	1000m above sea level			
Footprint Dimensions (all in mm)	1	650	* 630		
Weight (in Kg)	137	177	217	257	
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BATTERY PACK