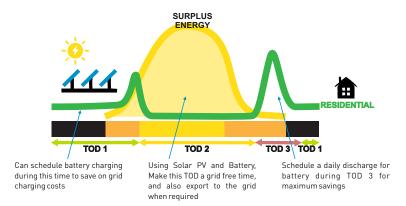


Energiaa's ESS Pegasus Li+ & Sphinx Li+ series is the new Stunning and Powerful premier segment Solar Energy Storage System for the Indian Market. A perfect combination of Energiaa's robust Hybrid inverter technology with an energy pack of upto 9.6KWhr of Li Ion battery provides enough punch to run your 1.5 T air conditioner.

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 2000 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 3.6 to 3.8KWH ensures that you never remain without power.

GPRS Based web monitoring available

Applications





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Bank ATM

Cl

Gyms Si

Small Offices



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







ESS PEGASUS Li+ SERIES

ESS SPHINX Li+ SERIES

BATTERY PACK Battery Type	T	l iFaPa	(LFP Type)		
Battery Capacity	2 / 1.10/1 / 01.10		Т турс)	7 21.14/4 -	0 / 1.10/1-
Battery Voltage	3.6kWhr 4.8kW		1/00	7.2kWhr	9.6kWhr
BMS			BV DC		
			BMS Inbuilt		
Max. Charge / Discharge Rate	<u> </u>	1(Rate		
MPPT SOLAR CHARGE CONTROLLER					
MPPT Topology		Bud	k Type		
Input PV Capacity (in KW)	Buck Type Same as Inverter Capacity				
Max. Open Circuit Voltage (Voc)	185V DC				
MPPT Input Range	66-147V DC				
MPPT Efficiency	95%				
ACTIVE FRONT END INVERTER					
Power Rating	3KVA 5KVA		Т	3KVΔ	5KVA
Inverter Type	ORVA JORVA		_ Lybrid		1 01(4)
Output Voltage (Standalone Mode)		2201//	AC +/-2%		
Output frequency (Standalone Mode)	50Hz +/-2%				
Output Frequency (Standatione Mode) Output Power	Same as Inverter Capacity				
Overload 60sec 30sec 5sec					
	110% 125% 150%				
Auto Bypass	Provided				
Grid Synchronisation	Provided Provided				
Grid Charging	Enable / Disable (Optional)				
Export to Grid	Enable / Disable (Optional)				
GRID CHARGER					
Import / Export Power	Same as Inverter Capacity				
Input Voltage	230V +10% & -20%				
Phase / Connection	1Phase / 2Wire				
USER INTERFACE					
Scheduling Features	Charge Inhibit, Island mode, Export, Forced	charge Standby mod	le Off		
Display Interface	Graphical LCD with back light [128×64]				
Setting Input	Membrane Keypad for Settings Input				
	Voltage, Current, Cumulative Import Energy				
Battery Parameters	Voltage, current, curriculative import chergy				
PV Parameters	Voltage, MPPT Charger 0/P Amps, Power, Energy, Cumulative Generation Voltage, Frequency, Power, Power Factor, Reactive Power, Average Power, Peak Power, Cumulative Exported Energy				
Grid Parameters	voltage, Frequency, Power, Power Factor, Reactive Power, Average Power, Peak Power, Cumulative Exported Energy				
Load Parameters	Voltage, Phase Current, Frequency, Power, Power Factor, Average Load, Peak Load				
System level Parameters	Mode of Operation, Active Faults, Heat Sink / IGBT temperature, System Mimic, System on / off				
LED Indications	Mains On, Alarm, Buzzer Mute				
PROTECTIONS					
PV Side	Reverse Polarity, Surge Protection (Class D)				
Battery Side	Reverse Polarity, Over / Under Voltage, Current Limit, Temperature Compensation				
Grid Side	Over/ Under Voltage, Over/ Under Frequency, Surge Protection (Class D)				
Load Side	Overloads, Short circuit				
System Protection	Over Temperature trip. Breakers at all Input				
WARRANTY	5 Years				
MONITORING (OPTIONAL)					
RS 485	RS-485 based monitoring showing all parar	neters through MODE	US		
GPRS	Easy to connect GPRS based Xenius Module for remote monitoring of all parameters (5 year data charge + sim included) as well a				
	remote controlling				
MISCELLANEOUS					
Degree of Protection	1	IP-2	1 1		
Environment Temperature	0 to 55° (without derating)				
Humidity	 	Max 95% non			
Altitude	 				
Dimensions (all in mm)	1000m above sea level 885 * 315 * 1150 1130 * 320 * 625				
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weight (in Kgs)	114 123			187	205

