

ENERGY STORAGE SYSTEM

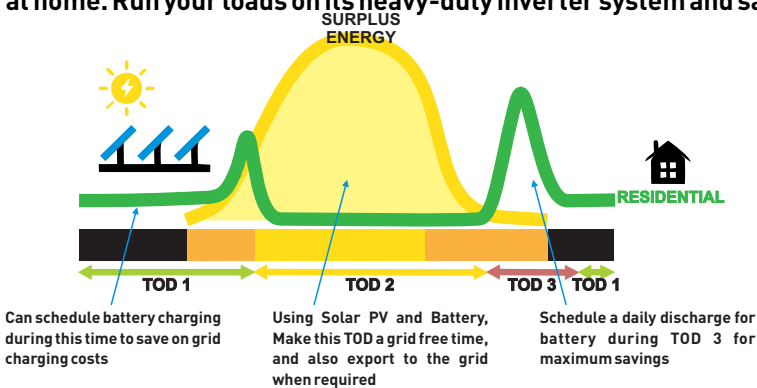
3KVA / 5KVA | LI-ION BASED





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 1.5 T 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



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BATTERY PACK

Battery Type	LiFePo4 (LFP Type)			
Storage Capacity	3.6kWhr	7.2kWhr	10.8kWhr	14.4kWhr
BMS	Active BMS Inbuilt			
Max. Charge / Discharge Rate	0.5C/1C Rate			
No. of Cycles	>3000			
MPPT SOLAR CHARGE CONTROLLER				
MPPT Topology	Buck Type			
Input PV Capacity (in KW)	Same as Inverter Capacity			
Max. Open Circuit Voltage (Voc)	190V DC			
MPPT Input Range	66-160V DC			
MPPT Efficiency	95%			
ACTIVE FRONT END INVERTER				
Power Rating	3KVA 5KVA			
Inverter Type	Hybrid			
Output Voltage (Standalone Mode)	230VAC +/-2%			
Output frequency (Standalone Mode)	50Hz +/-2%			
Output Power	Same as Inverter Capacity			
Overload 60sec 30sec 5sec	Upto 110% 125% 150%			
Auto Bypass	Provided			
Grid Synchronisation	Provided			
Grid Charging	Enable / Disable (Optional)			
Export to Grid	Enable / Disable (Optional)			
Grid Import / Export Power	Same as Inverter Capacity			
Grid Input Voltage	230VAC +10% & -20%			
Phase / Connection	1Phase / 2Wire			
USER INTERFACE				
Display Interface	Graphical LCD with back light (128x64)			
Battery Parameters	Voltage, Current			
PV Parameters	Voltage, MPPT Charger O/P Amps, Power, Energy, Cumulative Generation			
Grid Parameters	Voltage, Frequency, Power, Power Factor, Average Power, Cumulative Exported Energy			
Load Parameters	Voltage, Phase Current, Frequency, 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, 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 Inputs			
MONITORING (OPTIONAL)				
GPRS	Web based remote monitoring system			
MISCELLANEOUS				
Degree of Protection	IP-21			
Environment Temperature	0 to 50° (without derating)			
Humidity	Max 95% non condensing			
Altitude	1000m above sea level			
Footprint Dimensions (all in mm)	650 * 630			
Weight (in Kg)	137	177	217	257

