Ekergy Direct Energy Storage

EPP-8 (8 kW) - 16 kWh and 24 kWh Options

Ekergy Power Plant ™ is the ultimate whole house power plant. It will dramatically reduce your electric bill, eliminate reliance on utilities and reduce your carbon footprint. The Ekergy Home Energy System is a proprietary design that reduces costs and improves efficiency by directly storing DC from solar panels and converting the stored energy to 110/220 volt on demand power. The minimalist engineering design of this low-cost patented technology ensures easy installation. Ekergy boasts a highly efficient direct DC Solar to Battery storage design, thus eliminating complex solar to AC storage conversion equipment found in other competitive systems. The Ekergy system incorporates LiFePO4 batteries to store greater power at reduced costs and size and reducing the fear of fires.

A significant advantage of this system is providing your home with a whole house 24/7 resilient power to 'ride through' planned or unplanned power outages. The intelligent predictive storage management and efficient solar converter assures maximum benefit of PV power to the home and to the batteries thus reducing or eliminating high daytime energy costs. The Ekergy Power Plant ™ gives you an efficient and worry-free self-managed electricity solution.

Whole Home Power Plant

- Designed to achieve independence from the grid by being a whole home Power solution
- Substantial reduction of electric utility bills
- Low-cost batteries and conversion components

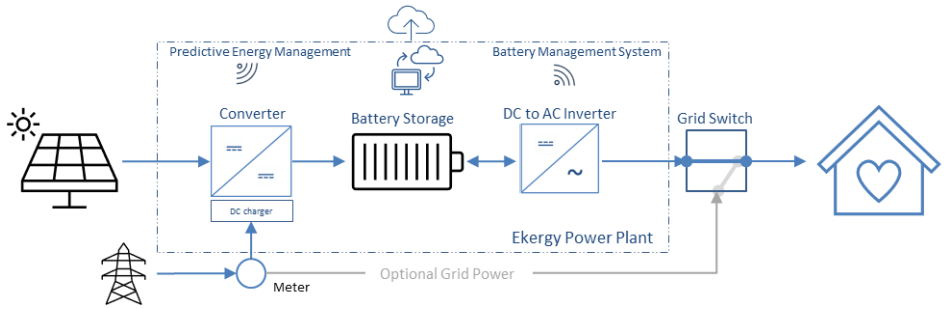
Efficiency

- Patent protected technology
- Direct DC charging reduces complexity and cost

Results

- Lower cost installation
- Reduced dependence on high-cost utility power
- Less maintenance and replacement costs
- Energy Independence into the future

Performance	EPP-8-16 16 kWh Specification	EPP-8-24 24 kWh Specification
Useable Battery Capacity	16 kWh	24 kWh
AC Power, max continuous Power Output	8 kW	8 kW
AC Power, peak (10s)	10 kW	10 kW
Transfer Switch Delay Time	<8 ms, ½ cycle	<8 ms, ½ cycle
Battery Voltage	192 VDC nominal	192 VDC nominal
Solar Input power / Current	6 kW / 30 A	6 kW / 30 A
Total Harmonic Distortion inverter output (THD)	<3% Max <8%	<3% Max <8%
Maximum Charge Current from Grid top up	20 A	20 A
Maximum Output Fault Current to House	45 A	45 A
Power Factor Output Range / full-rated power	>0.9 PF (load dependent)	>0.9 PF (load dependent)
Idle Power	50 W	50 W
Inverter Efficiency (one Way)	>95%	95%
Warranty	10 years	10 years
Field / Online Upgradeable System software	Yes	Yes
Battery Types	LiFePO4	LiFePO4



Mechanical Specifications	16 kWh Specification	24 kWh Specification
EPP™ Controller Dimensions (W x D x H) 4 Battery Pod's Each:	30" wide x 9" deep x 22" tall 16" wide x 8" deep x 43" tall	30" wide x 9" deep x 22" tall 16" wide x 8" deep x 43" tall
Weight EPP	20 kg (44 lbs.)	20 kg (44 lbs.)

Environmental Specifications[2]	16 kWh Specification	24 kWh Specification
Operating System Temperature	0°C to 50°C (32°F to 122°F)	
Operating Humidity (RH)	Up to 95% Non-condensing	
Environment / Enclosure Type	Outside or In-Garage / NEMA 3R	
Noise Level at 1m	<40 dBA at 30°C (86F)	

Regulatory	16 kWh Specification	24 kWh Specification
Certifications	Designed to UL 1741, UL 1973, UL 9540	

[1]Options extras (220v output transformer, modified enclosure, external fuse)
[2]External installation requires additional hardware/engineering