



Hykon®
Powering the Nation

E-GEN

ELECTRONIC GENERATOR

Green Energy Solution

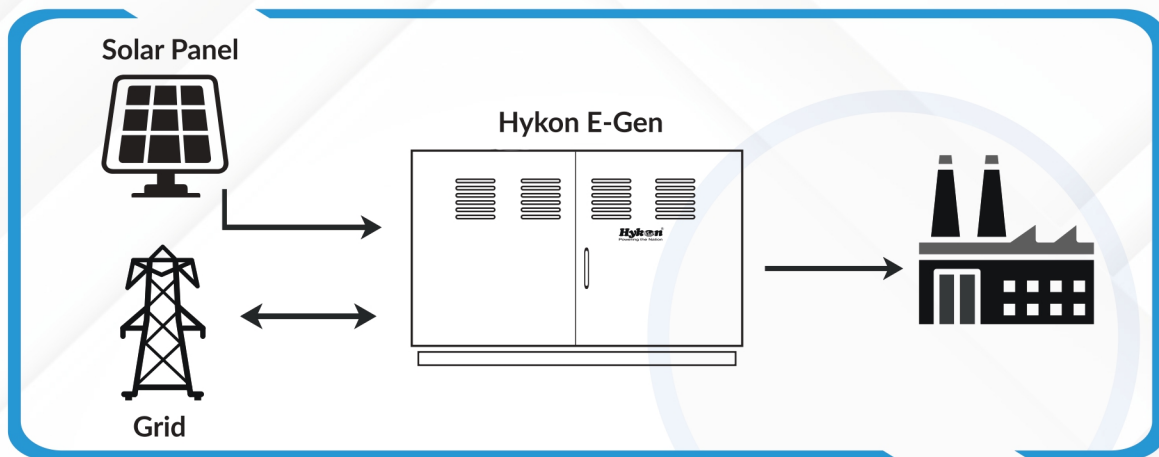
TO REPLACE Diesel Generator

3 KVA - 240 KVA
SINGLE & 3 PHASE





Schematic Diagram



Single Phase

E-Gen SH 3

E-Gen SH 6

MODELS

Three Phase

E-Gen SH 20

E-Gen SH 36



What is **Electronic Generator?**

The Electronic Generator (E-Gen) is an advanced, environmentally friendly alternative to diesel generators. It operates silently and produces no emissions, significantly reducing air pollution. The operational cost of the E-Gen is approximately one-fourth that of a diesel generator when charged from the grid, and even lower when utilizing solar power.

Hykon E-Gen series features a towable battery electric energy storage system or hybrid energy system, providing a reliable mobile power solution for large productions, construction projects, and events. With pure sine wave output, it safely powers sensitive equipment while minimizing environmental impact. The innovative "Smart Hybrid" technology allows seamless integration of off-grid and on-grid features.

How It Works?

Inverter Technology: Converts DC from lithium battery storage in to AC power.

Automatic Switching: Will work as UPS, seamlessly transitions from grid power to battery backup during outages.

On Grid Function: Excess energy produced from solar can be fed to the grid.

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Solar Charging: MPPT charger in E-Gen can charge the battery from solar.

Battery Charging: Can charge battery from solar grid and generator can set the preferences through software.

Comparison - Diesel Generator Vs Hykon E-Gen

Particular	Diesel Generator	Hykon E-Gen
Pollution free	Sound/Smoke	Yes
Maintenance free	Regular maintenance	Yes
Maintenance cost	high	Low
Operational cost	High/Man	Low
Solar Integration	No	Yes
Scalability	No	Yes - up to 8 nos Parallel
UPS mode	No	Yes
Peak load shifting	No	Yes

Key Features



Eco Friendly



Ideal for Flats, Hotels, Hospitals, Homes



Cost Effective



Long Life



Versatile Application



Safe and Reliable Performance



Technical Specifications

Model	E-GEN SH 3	E-GEN SH 6	E-GEN SH 20	E-GEN SH 36	E-GEN SH 54	E-GEN SH 126	E-GEN SH 180	E-GEN SH 240
Capacity	3KVA	6KVA	20 KVA	36KVA	54KVA	126KVA	180KVA	240KVA
DC Voltage	51.2V							
Input								
Nominal Voltage	230V		415V					
Input Voltage Range	90-270V		90-270V(L-N)/285-470V(L-L)					
Input Voltage Range (UPS Mode)	190-260V		190-260V(L-N)/330-470V(L-L)					
Input Frequency Range	50±5Hz							
Output								
Voltage	230V		415V					
Regulation	±2%							
Frequency (Inv. Mode)	50±0.5Hz							
PF	Unity							
Efficiency DC/AC	≥93%		≥91%					
Grid Charger								
Charger Type	CVCC							
Grid Charger Current	60A	120A	360A	720A	1080A	2520A	3600A	4800A
Solar Charger								
Max PV Input Max	4.5KW	7KW	21KW	42KW	63KW	147KW	210KW	280KW
PV Input Range	120-500VDC							
No of MPPT Tracker/Amp	1/13A	1/27A	3/27A	6/27A	9/27A	21/27A	30/27A	40/27A
MPPT Charging Current Max	60A	120A	360A	720A	1080A	2520A	3600A	4800A
Features								
Functional Modes	Off Grid/Hybrid							
Energy Export	Enable/Disable							
WiFi Remote Monitoring	Yes							
Energy Meter for Energy Monitoring	Yes							
Environment								
Operating Temperature	0-50°C							
Humidity	0-95% Rh Non-condensing							
Protection Level	IP55							
Protections								
Grid	Under voltage/Over voltage, Overcurrent, Under/Over Frequency							
Output	Under voltage/Over voltage, Overcurrent, Under/Over Frequency , Short circuit, Overload							
Battery	Under voltage/Over charge, Overcurrent, Under/Over temperature, Short circuit, Overload							
MCBs Protection	Input, Output, DC, PV Input							
RCCB Protection	Output							

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