ECOyoke

The Smart Energy Storage and Distribution Solution

Reduce your Fuel, Carbon and Noise Pollution by up to 80%

ECO yoke

www.ECOyoke.ie

Designed and manufactured in Ireland

ECOyoke is the preferred solution for companies aiming to reduce fuel costs, carbon emissions, and noise pollution. When operating at its optimum performance, the financial returns are significant, and the environmental benefits for employees, the local community, and the planet are clear.

Reduce your site generator fuel costs by up to 80%*

Reduce your Carbon Emissions by up to 80%*

Reduce generator noise pollution by up to 80%*

Features and benefits include:

- Multiple use cases: Electrical load shedding supply, redundancy power option, general power management.
- Extension of time for maintenance and servicing of associated source generators due to battery system.
- Portable and robust frame allowing for deployment in rugged and demanding settings.
- Remotely monitored interface to allow for effective and efficient use of lead power management.

What is the ECOyoke:

The ECOyoke is the smart energy storage and distribution system aimed with delivering a reduction in:

- Fuel consumption
- Operation costs
- Carbon emissions & footprint
- Reduction in noise pollution
- Generator run time and associated maintenance requirements

The ECOyoke utilizes a state-of-the-art inverter battery system to provide reliable and deployable power.

Each ECOyoke is provided with a remote monitoring system that allows for full visibility into its performance, ensuring that the distribution of electrical power is operating optimally. Furthermore, the ECOyoke team can provide guidance remotely if required.

The ECOyoke system is designed to be robust and withstand the elements, making it deployable to rugged and challenging requirements. The system's temperature is maintained to ensure optimal performance in all cases so that you can rely on quality power delivery.

ECOyoke Solutions:

The ECOyoke is deployed to facilitate intelligent energy use. When connected to an external energy source (For example, a generator), the battery system charges to its limits extents. Once this is reached, the generator is stopped.

The required system load is then provided from the battery array directly through the inverter system. Once the battery's charge reaches a depleted state, the source power is restarted, providing the power required while dual supplying the battery system once again.

This change of operation permits power only to be generated on a demand basis and limits the use of the source power/generator. This eliminates the generator operating inefficiently or running idle, burning diesel and money with no gain.

- The ECOyoke can be used as a redundancy power supply (or emergency power supply), acting as a battery storage system. In the event of a power outage, the ECOyoke can provide a quality power supply. The ECOyoke redundancy power supply duration can be scaled based on the customer's requirements. We are flexible.

- The ECOyoke can provide supplementary power, facilitating load shedding on a distribution system. This allows for time periods of increased load requirement to be dealt with rather than experiencing a power outage.

80% Carbon Offset

Reduce CO_2 emissions by up to 80% when compared to solely running a diesel generator

Silent Energy

Stored energy is released silently for extended periods

Smart Energy Storage

Stored energy at lower overnight rate for use during peak and more expensive periods

Reduced Fuel Costs

ECOyoke reduces diesel engine runtime by up to 80%

Lower Maintenance Commitments

Due to significantly less generator running time, maintenance frequency is greatly reduced

Don't just take our word for it...

*"After extensive research and comparison, we decided to invest in a hybrid generator for our welfare units on site, and **it has been a game-changer!** The combination of Battery and fuel power offers unmatched flexibility and reliability. We love how the generator seamlessly switches between battery power during the day and fuel when needed, **ensuring uninterrupted energy supply** regardless. The **reduced fuel consumption** has also significantly lowered our operating costs and environmental impact. This hybrid generator is incredibly efficient, quiet, and user-friendly. It's an **excellent investment for anyone looking for a sustainable and dependable power solution**."*

Ciarán McAdam, Purchasing Manager, Mannings Construction Group

Mannings
building confidence

ECOyoke

The Smart Energy Storage and Distribution Solution

Standard Models & Performance:

ECOyoke30

General Technical Data

Rated Power	kVA	30
Rated Energy Storage Capacity	kWh	27.36
Operating Frequency	Hz	50
Battery Rated Voltage	VDC	400 (3 Phase)
Rated Current Discharge	A	43 (Per Phase)
Battery Rated Voltage	V	48-53
Optimal Operating Temperature	C	25
Discharge Time 100% Rated Power	h	0.91
Discharge Time 75% Rated Power	h	1.22
Discharge Time 50% Rated Power	h	1.82
Discharge Time 25% Rated Power	h	3.65
Recharging Time (@DoD%)	h	1-2
Total Feed Through Current	A	2x100 *per inverter
Battery Temperature Sensor	N/A	Yes
Battery Type	N/A	Lithium Ion with inbuilt BMS Protection

Control & Communication

Control System	-	GX Cerbo Unit Victron
Modem	-	4G LTE Router

Dimensions & Weight

Dimensions (L x W x H)	mm	1980 x 1980 x 1910
Weight	kg	950
Housing	N/A	Steel Container

ECOyoke45

General Technical Data

Rated Power	kVA	45
Rated Energy Storage Capacity	kWh	41.04
Operating Frequency	Hz	50
Rated Voltage	VDC	400 (3 Phase)
Rated Current Discharge	A	65 (Per Phase)
Battery Rated Voltage	V	48-53
Optimal Operating Temperature	C	25
Discharge Time 100% Rated Power	h	0.91
Discharge Time 75% Rated Power	h	1.22
Discharge Time 50% Rated Power	h	1.82
Discharge Time 25% Rated Power	h	3.65
Recharging Time (@DoD%)	h	2-3
Total Energy Through Output	A	2x100 *per inverter
Battery Temperature Sensor	N/A	Yes
Battery Type	N/A	Lithium Ion with inbuilt BMS Protection

Control & Communication

Control System	-	GX Cerbo Unit Victron
Modem	-	4G LTE Router

Dimensions & Weight

Dimensions (L x W x H)	mm	1980 x 1980 x 1910
Weight	kg	1150
Housing	N/A	Steel Container

Visit: www.ECOyoke.ie

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ecoyoke