



2026 CATALOGUE

ECO POWER

FUTURE OF ENERGY

Showcasing innovative lithium battery solutions for residential and commercial energy efficiency.





2024

FOUNDED IN UAE

EcoPower is dedicated to transforming energy storage with cutting-edge lithium-ion battery solutions. Proudly designed and manufactured in the UAE, our products are built with advanced technology to ensure superior performance, efficiency, and reliability.

A MEMBER OF VXL HOLDING GROUP

VISION

To be the leading provider of sustainable energy storage solutions across the Middle East, Africa, and beyond.

MISSION

Empowering industries, businesses, and households with high-performance, sustainable energy solutions tailored for modern applications.

VALUE PROPOSITION

Zero-emission manufacturing, 100% recyclable products, ISO-certified quality, and 15+ year design life expectancy.

ECOPOWER ADVANCED TECHNOLOGY

In-house innovation maximizing efficiency, durability, and operational stability

96%

Round-Trip Efficiency

Advanced power management boosts conversion and output for maximum performance.

66%

Faster Charging

High-current charging while maintaining cell stability, reducing downtime significantly.

22%

Higher Energy Utilization

Optimizes internal flow for significantly more usable stored energy.

6,000+

Cycle Life

Top A Grade LiFePO4 cells ensuring exceptional longevity and reliability.

<0.1%

Cell Defect Rate

Rigorous quality control from raw material to final assembly.

8,16,24-Layer

BMS Protection

LiFePO4 chemistry with advanced BMS for zero fire risk and complete safety.

15+

YEARS DESIGN LIFE

40K+

ANNUAL CAPACITY

100+

CERTIFICATES

4

TARGET REGIONS

7

PRODUCT CATEGORIES



BESS

BATTERY ENERGY STORAGE SYSTEM








Depth of Discharge (DOD)	87%
Charging Speed	Normal Charge
Discharge Efficiency	90-85%
Warranty	5 Years
Peak Load Handling	Standard
Cell Stress Level	Normal
Energy Utilization	Standard
Temperature Range	-10°C to +55°C

HESS+

HYBRID ENERGY STORAGE SYSTEM

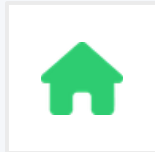
Depth of Discharge (DOD)	103%	+16%
Charging Speed	66% Faster	FAST
Discharge Efficiency	98%	+22%
Warranty	7 Years	
Peak Load Handling	Enhanced, Instant	
Cell Stress Level	Reduced, Longer Life	
Energy Utilization	+22% More Usable	
Temperature Range	-20°C to +60°C	

PRODUCT CATEGORIES

 <p>Residential 5-16 kWh wall-mounted</p>	 <p>Commercial Rack & cabinet systems</p>	 <p>Industrial 500kWh - 5MWh</p>	 <p>Agricultural Off-grid solutions</p>	 <p>Automotive 48V & 72V EV packs</p>	 <p>E-Scooter Swappable packs</p>	 <p>Telecom Backup power</p>
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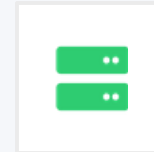


EcoPower delivers a comprehensive range of advanced LiFePO4 energy storage solutions engineered for diverse applications, from compact residential units to heavy-duty automotive and industrial systems.



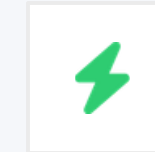
Residential Storage

- **5.1 kWh to 16.4 kWh** capacities
- Sleek, wall-mounted design for homes and villas
- Available in standard BESS and premium HESS+ configurations
- 24V and 48V system options



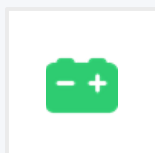
Commercial Rack Systems

- Scalable rack-mounted solutions
- Configurations from **2 to 16 racks**
- Ideal for offices, retail, and medium commercial facilities
- High discharge rates for demanding loads



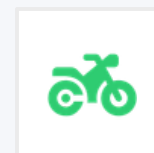
All-in-One Systems

- Integrated battery and inverter solutions
- Built-in **11kWh inverters** for plug-and-play deployment
- Streamlined installation process
- Optimized for solar hybrid setups



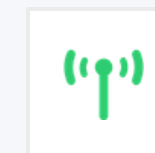
Automotive EV Batteries

- **48V and 72V** high-performance systems
- Capacities ranging from **50Ah to 680Ah**
- Engineered for EVs, golf carts, forklifts, and fleet vehicles
- Vibration resistant with rapid charging



E-Scooter Batteries

- **48V and 72V** swappable battery packs
- Capacities from **50Ah to 100Ah**
- Lightweight, durable design for two-wheelers and mopeds
- Waterproof casing with advanced BMS



Telecom & Infrastructure

- Reliable backup power for cell towers and critical systems
- Rugged, off-grid solutions for agricultural applications
- Mega-scale containerized solutions for industrial use
- Extreme temperature tolerance (-20°C to +60°C)



- ### KEY APPLICATIONS
- Residential Energy Storage
 - Small Office Backup Power
 - Solar Hybrid Systems
 - Off-grid Cabins & Villas

E05C8 200Ah - 24V 5.12 kWh			
BESS (Standard)		HESS+ (Premium)	
5 Years Warranty		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	4454Wh - 174A	Max Cont. Discharge	5274Wh - 206A
Discharging Duration	267 mins	Discharging Duration	316 mins +16%
Charging Duration	260 mins	Charging Duration	85 mins FAST

E05C16 100Ah - 48V 5.12 kWh			
BESS (Standard)		HESS+ (Premium)	
5 Years Warranty		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	4454Wh - 87A	Max Cont. Discharge	5274Wh - 103A
Discharging Duration	267 mins	Discharging Duration	316 mins +16%
Charging Duration	100 mins	Charging Duration	53 mins FAST

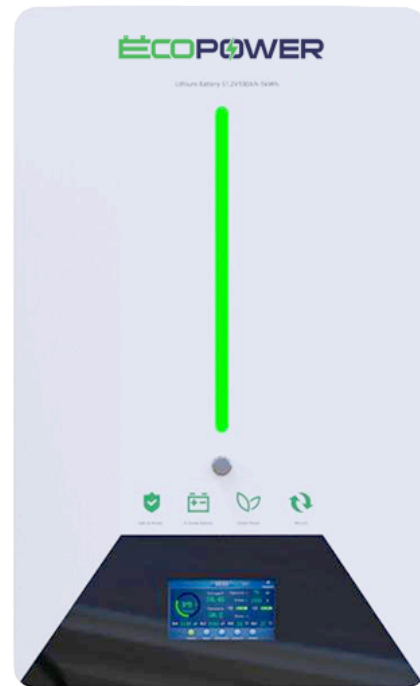
CELL TECHNOLOGY
Top A Grade LiFePO4

CYCLE LIFE
≥ 6,000 Cycles

PROTECTION
8&16-Layer Advanced

OPERATING TEMP
-20°C to 60°C

INSTALLATION
Wall-Mounted & Rack



KEY APPLICATIONS

- Medium Residential Homes
- Agricultural & Farms
- Small Commercial Backup
- Solar Energy Storage

E07C8 280Ah - 24V (7.17 kWh)			
BESS (Standard)	5 Years Warranty	HESS+ (Premium)	7 Years Warranty
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	6236Wh - 243A	Max Cont. Discharge	7385Wh - 288A
Discharging Duration	375 mins	Discharging Duration	443 mins +17%
Charging Duration	290 mins	Charging Duration	110 mins FAST

E08C8 314Ah - 48V (8.04 kWh)			
BESS (Standard)	5 Years Warranty	HESS+ (Premium)	7 Years Warranty
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	6993Wh - 273A	Max Cont. Discharge	8281Wh - 323A
Discharging Duration	419 mins	Discharging Duration	497 mins +17%
Charging Duration	320 mins	Charging Duration	125 mins FAST

CELL TECHNOLOGY

Top A Grade LiFePO4

CYCLE LIFE

≥ 6,000 Cycles

PROTECTION

8&16-Layer Advanced

OPERATING TEMP

-20°C to 60°C

INSTALLATION

Wall-Mounted & Rack



KEY APPLICATIONS

- Large Residential Properties
- Farms & Agricultural Facilities
- Commercial Backup Power
- Off-grid Solar Systems
- Telecom Base Stations

E09C16 175Ah - 48V (8.96 kWh)

BESS (Standard)	5 Years Warranty	HESS+ (Premium)	7 Years Warranty
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	7795Wh - 152A	Max Cont. Discharge	9229Wh - 180A
Discharging Duration	467 mins	Discharging Duration	554 mins +16%
Charging Duration	175 mins	Charging Duration	93 mins FAST

E10C16 200Ah - 48V (10.24 kWh)

BESS (Standard)	5 Years Warranty	HESS+ (Premium)	7 Years Warranty
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	8909Wh - 174A	Max Cont. Discharge	10547Wh - 206A
Discharging Duration	535 mins	Discharging Duration	633 mins +17%
Charging Duration	200 mins	Charging Duration	106 mins FAST

CELL TECHNOLOGY

Top A Grade LiFePO4

CYCLE LIFE

≥ 6,000 Cycles

PROTECTION

8&16-Layer Advanced

OPERATING TEMP

-20°C to 60°C

INSTALLATION

Wall-Mounted & Rack

E15 & E16 MODELS - HIGH CAPACITY WALL-MOUNTED



KEY APPLICATIONS

- Large Residential Homes & Villas
- Commercial Building Backup
- Industrial Power Stability
- High-Demand Off-Grid Solar Systems

E15C16 280Ah - 48V (14.34 kWh)			
BESS (Standard)	5 Years Warranty	HESS+ (Premium)	7 Years Warranty
Depth of Discharge	87%	Depth of Discharge	103%
Max Cont. Discharge	12472Wh - 244A	Max Cont. Discharge	14771Wh - 288A
Discharging Duration	748 mins	Discharging Duration	886 mins +18%
Charging Duration	280 mins	Charging Duration	148 mins FAST

E16C16 314Ah - 48V (16.07 kWh)			
BESS (Standard)	5 Years Warranty	HESS+ (Premium)	7 Years Warranty
Depth of Discharge	87%	Depth of Discharge	96%
Max Cont. Discharge	13987Wh - 273A	Max Cont. Discharge	16537Wh - 323A
Discharging Duration	840 mins	Discharging Duration	992 mins +18%
Charging Duration	314 mins	Charging Duration	166 mins FAST

CELL TECHNOLOGY

Top A Grade LiFePO4

CYCLE LIFE

≥ 6,000 Cycles

PROTECTION

8&16-Layer Advanced

OPERATING TEMP

-20°C to 60°C

INSTALLATION

Wall-Mounted & Rack



KEY APPLICATIONS

- Mega Villas & Luxury Estates Autonomy
- Commercial Peak Shaving & Load Shifting
- Heavy-Duty Off-Grid & Microgrid Systems
- EV Charging Stations & Data Center Backup

E30C32 560Ah - 48V (28.68 kWh)

BESS (Standard)		5 Years Warranty		HESS+ (Premium)		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%				
Max Cont. Discharge	24950Wh - 577A	Max Cont. Discharge	29542Wh - 577A				
Discharging Duration	1497 mins	Discharging Duration	1772 mins	+17%			
Charging Duration	320 mins	Charging Duration	176 mins	FAST			

E32C32 628Ah - 48V (32.15kWh)

BESS (Standard)		5 Years Warranty		HESS+ (Premium)		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%				
Max Cont. Discharge	27973Wh - 647A	Max Cont. Discharge	33118Wh - 647A				
Discharging Duration	1678 mins	Discharging Duration	1987mins	+18%			
Charging Duration	340 mins	Charging Duration	194 mins	FAST			

CELL TECHNOLOGY

Top A Grade LiFePO4

CYCLE LIFE

≥ 6,000 Cycles

PROTECTION

8&16-Layer Advanced

OPERATING TEMP

-20°C to 60°C

INSTALLATION

Wall-Mounted & Rack



KEY APPLICATIONS

-  Electric Vehicles (EVs)
-  Golf Carts & Utility
-  Forklifts & Material Handling
-  Fleet & Delivery Vehicles
-  Low-Speed Vehicles (LSVs)

EV07C24 100Ah - 72V (7.68 kWh)

BESS (Standard)		5 Years Warranty		HESS+ (Premium)		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%				
Max Cont. Discharge	6682Wh - 87A	Max Cont. Discharge	7910Wh - 103A				
Discharging Duration	401 mins	Discharging Duration	475 mins	+19%			
Charging Duration	100 mins	Charging Duration	53 mins	FAST			

EV11C24 150Ah - 72V (11.52kWh)

BESS (Standard)		5 Years Warranty		HESS+ (Premium)		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%				
Max Cont. Discharge	10022Wh - 131A	Max Cont. Discharge	11866Wh - 154A				
Discharging Duration	601 mins	Discharging Duration	712mins	+18%			
Charging Duration	120 mins	Charging Duration	78 mins	FAST			

CELL TECHNOLOGY

Top A Grade LiFePO4

CYCLE LIFE

≥ 6,000 Cycles

PROTECTION

24-Layer Advanced

OPERATING TEMP

-20°C to 60°C

INSTALLATION

Rack IP67 & IP65



KEY APPLICATIONS

-  Electric Vehicles (EVs)
-  Golf Carts & Utility
-  Forklifts & Material Handling
-  Fleet & Delivery Vehicles
-  Low-Speed Vehicles (LSVs)

EV15C24 200Ah - 72V (15.36 kWh)

BESS (Standard)		5 Years Warranty		HESS+ (Premium)		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%				
Max Cont. Discharge	13363Wh - 174A	Max Cont. Discharge	15820Wh - 206A				
Discharging Duration	802 mins	Discharging Duration	949 mins	+19%			
Charging Duration	260 mins	Charging Duration	85 mins	FAST			

EV21C24 280Ah - 72V (21.50kWh)

BESS (Standard)		5 Years Warranty		HESS+ (Premium)		7 Years Warranty	
Depth of Discharge	87%	Depth of Discharge	103%				
Max Cont. Discharge	18708Wh - 243A	Max Cont. Discharge	22147Wh - 288A				
Discharging Duration	1122 mins	Discharging Duration	1328mins	+17%			
Charging Duration	290 mins	Charging Duration	110 mins	FAST			

CELL TECHNOLOGY

Top A Grade LiFePO4

CYCLE LIFE

≥ 6,000 Cycles

PROTECTION

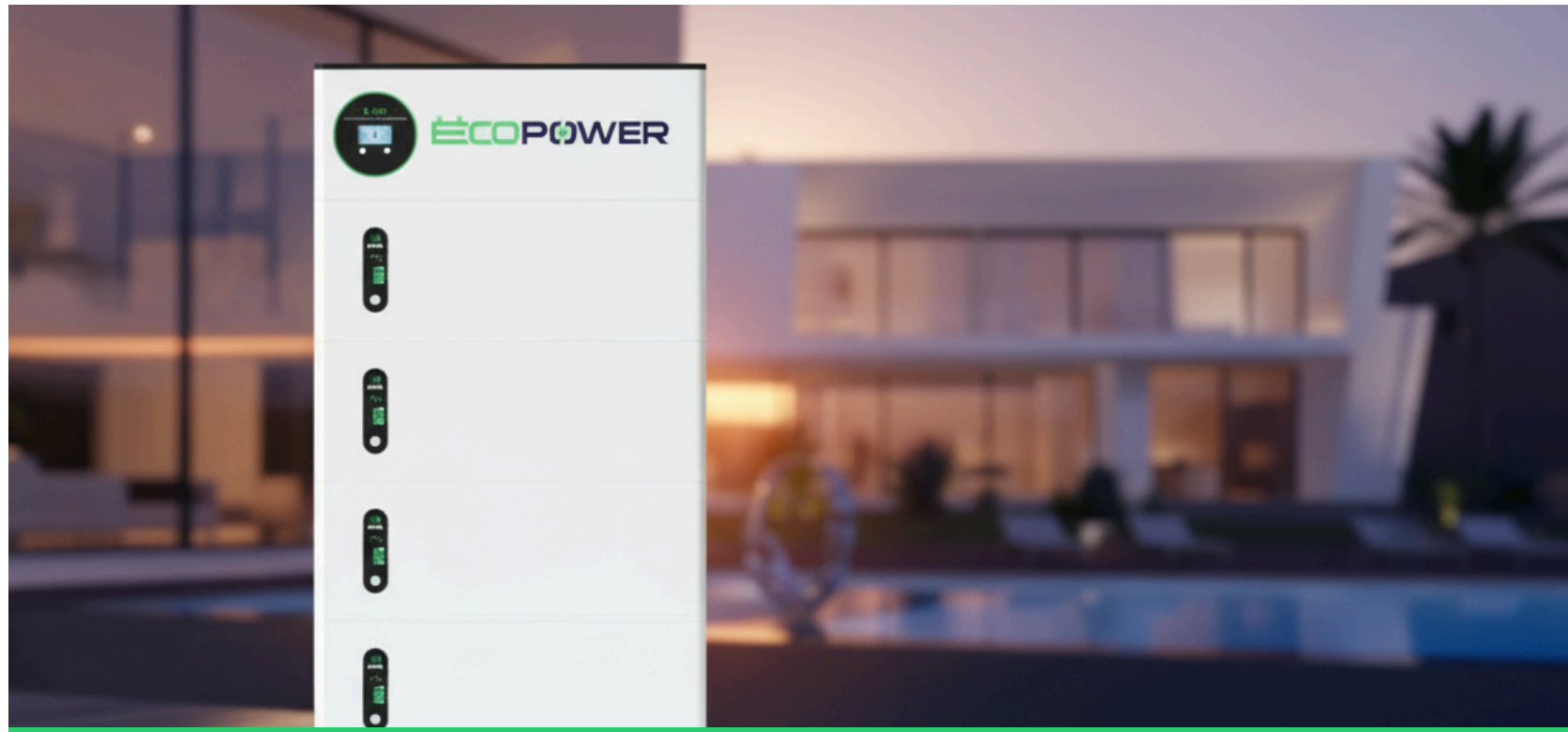
24-Layer Advanced

OPERATING TEMP

-20°C to 60°C

INSTALLATION

Rack IP67 & IP65



ALL-IN-ONE SERIES

Integrated Inverter	Built-in 3,5,8,11kWh Inverter
System Architecture	Plug-and-Play Design
Compatibility	Solar & Hybrid Storage Ready
Cell Technology	Top A Grade LiFePO4



RACK CABINET SERIES

Base Unit Capacities	5, 8, 10, 15, 16 kWh
Scalability Range	2 to 16 Rack Configurations
Deployment Scale	Commercial & Industrial
System Voltage	High Voltage Options Available

KEY APPLICATIONS

Commercial Facilities

Industrial Plants

EV Charging Stations

Critical Infrastructure



KEY APPLICATIONS

-  Electric Vehicles (EVs)
-  Golf Carts & Utility
-  Forklifts & Material Handling
-  Fleet & Delivery Vehicles
-  Low-Speed Vehicles (LSVs)

HIGH-PERFORMANCE LIFEPO4 SYSTEMS

48V System

Standard voltage configuration optimized for golf carts, forklifts, and light electric vehicles.

72V System

High-power configuration designed for heavy-duty EVs, fleet vehicles, and demanding applications.

AVAILABLE CAPACITIES (48V & 72V)

50Ah	75Ah	100Ah	150Ah
175Ah	200Ah	230Ah	280Ah
300Ah	314Ah	340Ah	680Ah

ADVANCED FEATURES

High Discharge Rate

Engineered to deliver instant power for sudden acceleration and heavy loads.

Vibration Resistance

Rugged internal structure designed to withstand rough terrains and constant movement.

Fast Charging

Advanced BMS allows rapid energy replenishment, minimizing vehicle downtime.

Lightweight Design

High energy density significantly reduces overall vehicle weight, improving range.



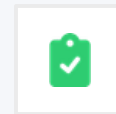
UNCOMPROMISING QUALITY

100+

CERTIFICATIONS AND TESTS

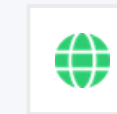
EcoPower products undergo rigorous testing and validation to meet the highest global standards. Our commitment to excellence ensures that every battery system delivers unparalleled safety, reliability, and performance across all applications.

Our manufacturing processes and product lines are fully certified by leading international and regional regulatory bodies, guaranteeing compliance with strict environmental, safety, and quality protocols.



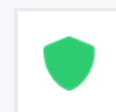
MANAGEMENT SYSTEMS

- **ISO 9001**
Quality Management System
- **ISO 14001**
Environmental Management
- **ISO 45001**
Occupational Health & Safety
- **ROHS**
Environment & Safety



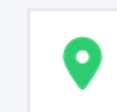
INTERNATIONAL STANDARDS

- **CE Mark**
European Conformity
- **IEC 62620**
Industrial Lithium Secondary Cells
- **IEC 62619**
Electrotechnical Products Testing
- **IEC 62321**
Electrotechnical Products Testing



SAFETY & TRANSPORT

- **UN38.3**
Safe Transport of Lithium Batteries
- **MSDS**
Material Safety Data Sheet



REGIONAL & LEGAL

- **ECAS**
Emirates Conformity Assessment Scheme
- **Made in Emirates**
National In-Country Value
- **Industrial License & Trademark**
Official Registration
- **SABER / SASO**
KSA Stander



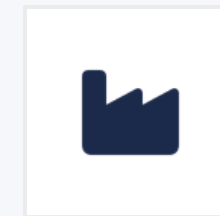
EcoPower's industry-leading capabilities are built upon strong foundations and strategic alliances with national organizations and global manufacturing powerhouses.



PARENT COMPANY

VXL Holding Group

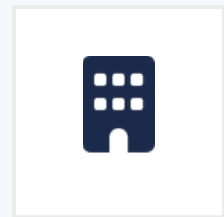
Providing global vision, financial strength, and international market access to drive EcoPower's rapid expansion and technological innovation.



MANUFACTURING PARTNER

Qader Factory for Developed Industries

Delivering state-of-the-art manufacturing capabilities, ensuring precision engineering and scalable production of advanced energy storage systems.



STRATEGIC PARTNER

Arab Organization for Industrialization

A regional industrial powerhouse supporting EcoPower with vast infrastructure, technical expertise, and institutional backing across the Middle East.



NATIONAL PROGRAM

Made in Emirates

Proudly designed and manufactured in the UAE, adhering to the highest national standards of quality, sustainability, and industrial excellence.

STATE-OF-THE-ART MANUFACTURING

40,000+ UNITS ANNUAL CAPACITY





EcoPower

POWERING A SUSTAINABLE FUTURE



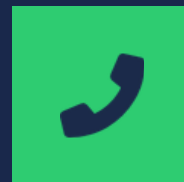
WEBSITE

www.theecopower.com



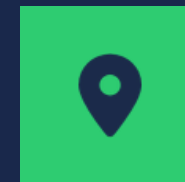
EMAIL

info@theecopower.com



PHONE

+971-505-881324
+971-555-781802



HEADQUARTERS

8 Al Noud, Al Ain City
Abu Dhabi, UAE