

METROBIT

Since 2002



EVERGY PRODUCT CATALOG

EV INFRASTRUCTURE FOR A SUSTAINABLE FUTURE

Fast-Charge EV Solutions

Liquid-Cooled Battery
Energy Storage

Smart Charging Stations



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ABOUT METROBIT

Metrobit Group, headquartered in Canada, operates in MEA under Metrobit FZCO in Dubai's Jebel Ali Free Zone which is a manufacturing and solutions hub dedicated to mission-critical power and energy infrastructure. With over two decades of industry experience, we specialize in developing high-performance DC power systems, EV chargers, battery energy storage systems, and integrated monitoring platforms.

WHY CLIENTS TRUST METROBIT

Metrobit powers the clean transition in mobility and energy infrastructure through reliable, locally-engineered, and performance-driven technologies.

01

20+ years of engineering excellence

02

Full in-house design and production

03

Trusted by industry leaders such as Ericsson, Etisalat, and STC across the Middle East

04

Middle East manufacturing advantage



WHAT IS EVERGY?

EVERGY is Metrobit's EV charging product line which was tailored to meet the evolving demands of electric mobility in residential, commercial, and fleet environments.

Our range spans from compact AC home chargers to heavy-duty 400 kW DC fast chargers for highway and fleet use. Built for performance, safety, and flexibility, every EVERGY charger is designed to international standards, and OCPP-compliant.

EVERGY Benefits

- Smart connectivity (Wi-Fi / 4G / Ethernet)
- Multi-standard support (CCS, CHAdeMO, GBT)
- OCPP 1.6 & 2.0 enabled
- Robust ingress protection (IP55 to IP66)
- App/RFID/QR-based operation
- Clean modular design for indoor and outdoor use



METROBIT
EV CHARGER

EVERGY EV PRODUCT MATRIX

Model Name	Type	Power Range	Connector Type(s)	Mounting Style	Ideal Use Case
EMACxP	AC Portable	3.5–11 kW	Type 2	Wall/portable	Emergency, home plug-in
EMACxWSO	AC Socket Wallbox	7–22 kW	Type 2 (Socket)	Wall/pedestal	Residential, apartment
EMACxW	AC Gun Wallbox	7–22 kW	Type 2 (Gun)	Wall/pedestal	Offices, public parking
EMACxFS	Dual AC w/Screen	14–44 kW	Type 2 Dual Output	Free-standing	Malls, hotels, commercial lots
EMDCxWS	DC Vertical	30–40 kW	CCS/CHAdEMO/GBT	Floor/pedestal	Semi-public use, light fleet
EMDCxWD	DC Wall Dual	30–40 kW	Dual CCS/CHAdEMO	Wall-mounted	Company depots, fleet points
EMDCxW	DC Compact Wallbox	20–30 kW	CCS/CHAdEMO	Wall-mounted	Urban fast charging
EMDCxF	High Power DC	60–150 kW	CCS (200A)	Floor-mounted	Highway rest stops, bus fleets
EMDCxF+	Ultra Power DC	180–400 kW	CCS (500A)	Floor-mounted	Logistics centers, bus terminals

Portable AC Charger (3.5–11kW)

AC Chargers



Key Features:

- LCD screen with real-time charging info
- Adjustable charging current
- Type 2 connector with IP65 waterproof rating
- Intelligent chip for protection against overvoltage, leakage, and overheating
- Compatible with most EVs in the market

Product Description

A compact, user-friendly portable AC EV charger designed for flexible home or fleet charging. Plug-and-play convenience with adjustable current settings and multilingual support.

Technical Summary:

- Output Power: 3.5–11kW
- Voltage: 230V / 400V
- Frequency: 50/60Hz
- Working Temp: –30°C to +55°C
- Enclosure: PC+ABS, IP65
- Plug Type: Type 2

Recommended For:

Home users, fleet operators, EV owners needing mobile solutions, corporate users with varying power supply.

Socket Wallbox AC Charger (7–22kW)

AC Chargers



Key Features:

- Smart charging with RFID / App / OCPP support
- IP65 waterproof design
- Over-voltage and under-voltage protection
- Easy installation and wall-mounted structure
- Load balancing with external CT support

Product Description

Wall-mounted EV charger with a socket interface, designed for commercial and residential setups. Offers power flexibility, smart protection, and dynamic load balancing.

Technical Summary:

- Output Power: 7–22kW
- Voltage: 400V $\pm$ 10%
- Frequency: 50/60Hz
- Connector Type: Type 2 (socket only)
- Enclosure: PC+ABS, IP65
- Communication: RS485 / 4G / Wi-Fi

Recommended For:

Apartments, public parking lots, office buildings, and fleet facilities where multiple users need secure socket charging access.

Wall-Mounted AC Charger with Gun (7–22kW)

AC Chargers



Key Features:

- Built-in cable for easy plug-and-charge
- Smart meter interface
- 6mA DC leakage detection
- Load balancing support
- OCPP 1.6 JSON compatibility

Product Description

Stylish and durable single-output AC charger with a fixed Type 2 cable. Perfect for private or semi-public EV charging installations.

Technical Summary:

- Output Power: 7–22kW
- Voltage: 400V $\pm 10\%$
- Cable: 5m Type 2
- IP Rating: IP55
- Enclosure: Flame retardant PC+ABS
- Connectivity: Wi-Fi / Ethernet / 4G

Recommended For:

Residential homes, gated communities, corporate parking zones.

Commercial AC Charger with Screen (14–44kW Dual Output)

AC Chargers



Product Description

A high-capacity AC charger with dual-gun output and a user-friendly screen interface. Perfect for semi-fast charging in shared or public facilities.

Key Features:

- Dual output (2 x 22kW)
- 7-inch TFT LCD touch screen
- Supports RFID & App authorization
- Optional OCPP & load balancing
- Overcurrent, leakage, and over-temp protection

Technical Summary:

- Output Power: 14–44kW
- Output Voltage: 400V
- Connector: 2 x Type 2
- Cooling: Natural
- Enclosure: IP54
- Communication: 4G / Wi-Fi / Ethernet

Recommended For:

Public parking areas, commercial premises, malls, and fleet charging with limited time per vehicle.

Vertical DC Fast Charger (30–40kW, 1 Gun)

DC Chargers



Product Description

Dual-output wall-mounted DC fast charger offering scalable power and dual gun convenience. Perfect for commercial applications.

Key Features:

- Single CCS2 output with dynamic voltage range
- LCD interface with RFID & OCPP support
- Intelligent protection: short-circuit, overvoltage, leakage
- Emergency stop functionality
- Supports remote monitoring and software upgrades

Technical Summary:

- Output Power: 30–40kW
- Voltage Range: 150–1000V
- Connector: CCS2
- Protection Level: IP55
- Operating Temp: -20°C to $+55^{\circ}\text{C}$
- Cooling: Intelligent air cooling
- Communication: Ethernet / 4G / RS485 / OCPP 1.6

Recommended For:

Urban charging stations, commercial buildings, logistics hubs, fleet charging where space-saving floor units are preferred.

Wallmounted Fast Charger (30–40KW, 2 Guns)

DC Chargers



Product Description

Dual-output wall-mounted DC fast charger offering scalable power and dual gun convenience. Perfect for commercial applications.

Key Features:

- Dual CCS2 connectors
- LCD display with interactive UI
- Built-in energy metering
- High-efficiency rectification
- Emergency stop and intelligent safety protection

Technical Summary:

- Output Power: 30–40kW
- Voltage Range: 200–1000V
- Output Current: Up to 100A
- Guns: 2 x CCS2
- Enclosure: IP55, metal sheet + powder coating
- Communication: Ethernet / RS485 / 4G
- Cooling: Intelligent air-cooled

Recommended For:

Shopping malls, airport carparks, residential complexes, and commercial fleets needing simultaneous multi-vehicle DC charging.

Compact Wallbox DC Charger (20–30kW)

DC Chargers



Key Features:

- Wall-mounted or pedestal optional
- Fast charging for urban locations
- Dual protocol support: CCS2 & CHAdeMO
- 7" touchscreen with interactive UI
- IP55 cabinet with fan cooling

Technical Summary:

- Output Power: 20–30kW
- Output Voltage: 150–1000V
- Efficiency: $\geq 94\%$
- Connector: 1 or 2 Guns (CCS2 / CHAdeMO)
- Protection: IP55, fan cooled
- Communication: Ethernet / 4G / OCPP

Product Description

Compact DC charger ideal for locations requiring quick charging in a small footprint. Efficient, reliable, and easy to maintain.

Recommended For:

Urban roadside charging, private fleet depots, commercial centers with low space availability.

High Power DC Charger (60–150kW)

DC Chargers



Product Description

High-capacity dual-output fast DC charger tailored for medium-to-heavy duty EV fleets. Offers flexibility, speed, and intelligent monitoring.

Key Features:

- Dual CCS2 outputs
- Touchscreen UI with user authentication
- Smart load balancing
- Custom branding available
- Integrated safety and fault detection systems

Technical Summary:

- Output Power: 60–150kW
- Voltage Range: 150–1000V
- Output Current: Up to 250A
- Efficiency: $\geq 95\%$
- Guns: 2 x CCS2
- Protection: IP55 / IK10
- Cooling: Forced air cooling
- Comms: OCPP 1.6 / Ethernet / 4G

Recommended For:

EV fleets, depots, service stations, and commercial hubs requiring fast and scalable charging.

Ultra Power DC Charger (180–400kW)

DC Chargers



Product Description

An ultra-fast DC EV charger engineered for highway corridors and premium charging stations. It's built to reduce EV charging downtime dramatically.

Key Features:

- High power DC charging for all vehicle types
- Dual-gun parallel or split charging
- Modular design for easy maintenance
- CCS2, CHAdeMO support
- Integrated cooling and cable management system

Technical Summary:

- Output Power: 180–400kW
- Voltage Range: 200–1000V
- Current: Max 500A
- Guns: 2 x CCS2 (or CCS2 + CHAdeMO)
- Cooling: Liquid cooling system
- Efficiency: $\geq 95\%$
- Protection: IP55
- Communication: Ethernet, 4G, OCPP

Recommended For:

EV fleets, depots, service stations, and commercial hubs requiring fast and scalable charging.

METROBIT LIQUID-COOLED BATTERY ENERGY STORAGE SYSTEM (BESS)

Product Description:

Our Liquid-cooled BESS is a modular, cabinet-style energy storage unit engineered for commercial and industrial use. Designed to pair seamlessly with EV charging stations, solar PV systems, and backup applications, it stores and delivers high-voltage power with maximum efficiency. An integrated EMS which ensures smart control of energy flow from the grid to EV. Its integrated liquid cooling system keeps internal temperatures stable, improving battery life and operational safety even in harsh environments. With a compact footprint, smart thermal management, and long service life, this BESS is ideal for facilities looking to optimize power use, reduce grid dependence, and support sustainable energy goals.



TECHNICAL SPECIFICATIONS

Items	Parameters	
BESS	Cell Configuration / Allowed C-rate	1P260S / 0.5C
	Rated Voltage	832 V (728 V~936 V)
	Rated Energy	232.9 kWh
	Cooling Type / FSS Type	Liquid / Aerosol
	Dimension (W × D × H) / Weight	1000 mm × 1350 mm × 2400 mm / ~2700 kg
	Lifespan	20 years
	IP Grade	IP55 (Battery Room)
	COM Port / Protocol	Modbus TCP/IP
	Recommended Storage Temperature	15 °C ~ 30 °C
	Operating Temperature Range / Relative Humidity	-30 °C ~ 55 °C / 0 % ~ 95 %
	Certificates	IEC62619, UL9540A, UL9540, UN3536

PCS – General	Metis 125 (M125-UL)	Metis 100 Series (M-100-E-IEC)
System Operation Mode	On/Off-grid mode (manual switch)	On/Off-grid mode (manual switch)
PCS Model No.	Metis 125 (M125-UL)	Metis 100 Series (M-100-E-IEC)
Rated Input / Output Power (kW)	125 kW	100 kW
Max. Operating Current (A)	184 A	158 A
Certificates	IEC62477-1, UK: G99/19/10, Italy: CEI0-21, Low Voltage Directive 2014/35/EU, IEC61000-6-2, IEC61000-6-4	

PCS – AC Grid-connected item	Metis 125 (M125-UL)	Metis 100 Series (M-100-E-IEC)
Rated Output Power	125 kVA	100 kVA
Max. AC Current	160 A	160 A
Rated Grid Voltage	277/480 Vac, 3W+N+PE or 3W+PE	230/400 Vac, 3W+N+PE or 3W+PE
Frequency	60 Hz	50 / 60 Hz
Power Factor Range	-1...+1	-1...+1

PCS – AC Off-grid item	Metis 125 (M125-UL)	Metis 100 Series (M-100-E-IEC)
Output Voltage	277/480 Vac, 3W+N+PE	230/400 Vac, 3W+N+PE
Rated Output Power	125 kVA	100 kVA
Max. AC Current	150 A (linear load) / 100 A (nonlinear load)	150 A (linear load) / 100 A (nonlinear load)
Frequency	60 Hz	50 / 60 Hz
Max. Allowable Crest Factor	2.5	2.5

EVERGY EV CHARGING STATION SOLUTIONS

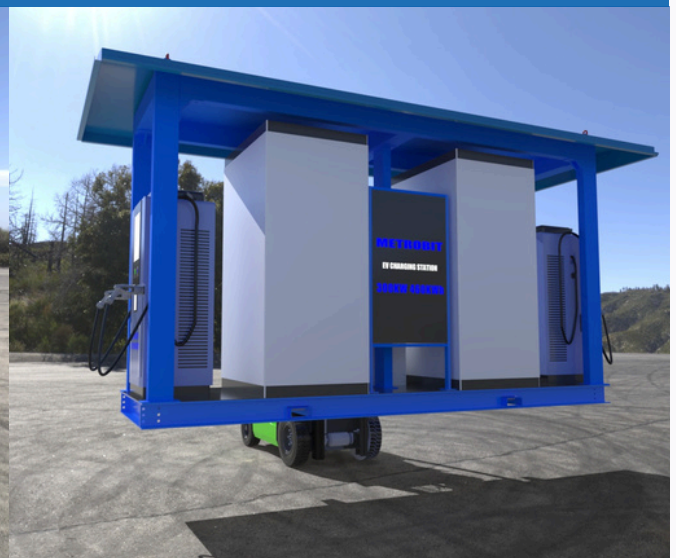


All-in-One Fast Charging Infrastructure for Modern Mobility

EVERGY Charging Station is a pre-assembled, integrated solution combining EV fast chargers with Battery Energy Storage Systems (BESS) and Power Conversion Systems (PCS). Designed for seamless deployment, it minimizes site preparation and installation time, delivering grid-independent, high-performance EV charging anywhere it's needed.



This all-in-one EV Charging Station is ideal for high-traffic locations, grid-constrained environments, and businesses looking to reduce energy costs while providing rapid charging for electric vehicles. Engineered for safety, reliability, and ease of deployment, the system includes high-output EV chargers, scalable lithium battery storage, liquid cooling systems, integrated EMS that manages the flow of energy from the grid to the EV and advanced PCS, all within a durable, modular cabinet.



Key Features:

- High Power Output: Fast charging with scalable configurations (up to 300 kW)
- Integrated Storage: Includes Liquid-Cooled BESS for energy optimization
- Smart Control System: Real-time monitoring and dynamic load balancing
- Integrated EMS: Manages the flow of energy from the grid to the EV
- Minimal Site Work: Pre-assembled cabinet for quick, plug-and-play setup
- Built for Harsh Environments: IP55-rated enclosure with temperature control
- Sustainable & Efficient: Reduces grid dependency and peak loads

Technical Summary

Parameter	Details
Charger Output	Up to 300 kW
Battery Capacity	Up to 466 kWh
PCS Power	200 kW
Cooling System	Liquid-Cooled
Enclosure Protection	IP55
Temperature Range	-30°C to +55°C
Deployment	All-in-one factory assembled and tested. Ready to deploy to sites

Ideal For:

- Fleet Charging Hubs : Serve large-scale EV operations with minimal grid strain
- Highway Rest Stops : Enable fast charging where grid expansion is limited
- Commercial Facilities : Offer charging to employees or customers sustainably
- Construction Sites : Reliable, standalone charging without grid reliance
- Emergency Backup : Acts as a reserve power system in critical areas





We are ready to assist you

Whether you're electrifying a fleet, launching public EV stations, or supporting clean energy goals, we're here to **power your mission.**

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