

Product Description

The Metrobit Pro 90–240kW Charger is a modular DC fast charging system engineered for commercial, fleet, and mixed AC/DC charging environments. Designed for scalability and flexibility, the system supports both DC-only and DC + AC43 hybrid configurations, enabling optimized deployment across diverse infrastructure requirements.

With IP55 protection, IK10 mechanical strength, and C4 anti-corrosion compliance, the Metrobit Pro series ensures long-term reliability in demanding outdoor installations.

Key Features

- Power range from 90kW to 240kW
- Optional AC 43kW hybrid configuration
- Output voltage range 150–1000 VDC
- Up to 300A DC output
- Peak efficiency $\geq 95\%$
- IP55 protection level, IK10 rating
- ISO15118 / DIN70121 compliant
- OCPP 1.6J (upgradeable to 2.0.1)
- Ethernet / WiFi / optional 4G
- 10.1" touch screen interface
- C4 anti-corrosion standard
- Load balancing capability

Applications

- Commercial EV charging stations
- Fleet depots and logistics hubs
- Retail and office parking facilities
- Highway service areas
- Mixed AC/DC charging environments
- Industrial charging installations





Product Overview



Technical Specifications

AC INPUT							
Parameter	90kW	120kW	150kW	160kW	180kW	200kW	240kW
Input Voltage	3-phase 400VAC ±10%, 50/60Hz, 3P+N+PE						
Earthing System	TN-C / TN-S / TN-C-S / TT						
Rated Input Current (DC / DC+AC43)	3Φ144A / 207A	3Φ192A / 255A	3Φ240A / 303A	3Φ256A / 319A	3Φ288A / 351A	3Φ320A / 383A	3Φ384A / 447A
Max Input Power (DC / DC+AC43)	95kW / 138kW	126kW / 169kW	158kW / 201kW	168kW / 211kW	190kW / 233kW	210kW / 253kW	253kW / 296kW
Power Factor	≥0.99						
Peak Efficiency	≥95%						
THDi	≤5%						
Standby Power Consumption	≤100W						
DC OUTPUT							
Parameter	90kW	120kW	150kW	160kW	180kW	200kW	240kW
Output Voltage Range	150-1000 VDC						
Output Current (Connector)	150A / 200A / 250A / 300A (Optional)						
Max Output Current (System)	DC 300A / AC 63A						
Max Output Power (DC / DC+AC43)	90kW / 133kW	120kW / 163kW	150kW / 193kW	160kW / 203kW	180kW / 223kW	200kW / 243kW	240kW / 283kW
Number of Outputs	2 (Any two combinations of CCS2, CCS1, GBT, CHAdeMO, NACS)						
Optional Configuration	3 outputs (Any three combinations incl. Type2)						
Connector Type	CCS2 / CCS1 / GBT / CHAdeMO / NACS / Type2						
Voltage Accuracy	≤±0.5%						
Current Accuracy	≤±1%						
USER INTERFACE							
Parameter	Specification						
Display	10.1" Touch Screen						
Meter	CE Meter						
Emergency Button	Yes						
Authentication	RFID / QR Code / App						
Support Language	English (Other languages available upon request)						
COMMUNICATION							
Parameter	Specification						
Network	Ethernet / WiFi / Optional 4G						
OCPP	1.6J (Upgradeable to 2.0.1)						
Protocol Standards	ISO15118-1 / ISO15118-2 / ISO15118-3 / DIN70121						

*Specifications are subject to change without prior notice

Technical Specifications

ENVIRONMENTAL	
Parameter	Specification
Operating Temperature	-30°C to 50°C (Over 50°C derating)
Storage Temperature	-40°C to 70°C
Humidity	< 95% non-condensing
Altitude	≤2000m
Noise	≤75dB @3m, 25°C full power
PROTECTION	
Protection Features	Over voltage protection, Under voltage protection, Overload protection, Leakage current protection, Over temperature protection, Surge protection, Short circuit protection, Fault self-check, Insulation detection
CERTIFICATION & STANDARDS	
Item	Specification
Certificates	CE, CB
Charging Standards	IEC61851-1 / IEC61851-21-2 / IEC61851-23 / IEC61851-24 / IEC62196-1 / IEC62196-3
IP Rating	IP55
IK Rating	IK10 (HMI IK8)
MECHANICAL	
Parameter	Specification
Dimensions (W×D×H)	800 × 603 × 1854 mm (Excluding cable management)
Weight	≤400kg
Cooling	Air Cooling
Cable Length	5m
Installation	Floor Mounted

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