

Product Description

The Metrobit Hercules 300–480kW Charger is an ultra-high-power DC fast charging system engineered for highway corridors, large-scale commercial charging hubs, and high-throughput fleet environments. Designed to deliver scalable output power with advanced cooling configurations, the system supports both air-cooled and liquid-cooled architectures to accommodate high-current charging demands.

With IP55 enclosure protection, IK10 mechanical rating, C4 anti-corrosion compliance, and compatibility with ISO15118/DIN70121 protocols, the Metrobit Hercules ensures reliable, high-efficiency operation in demanding outdoor installations

Key Features

- Power range from 300kW to 480kW
- Output voltage range 150–1000 VDC
- Air cooling or liquid cooling configurations
- Up to 400A (air cooling) / 600A (liquid cooling)
- Peak efficiency $\geq 96\%$
- IP55 protection level, IK10 rating
- C4 anti-corrosion compliance
- ISO15118 / DIN70121 compliant
- OCPP 1.6J (upgradeable to 2.0.1)
- Ethernet / WiFi / optional 4G
- 10.1" touch screen interface
- Load balancing capability

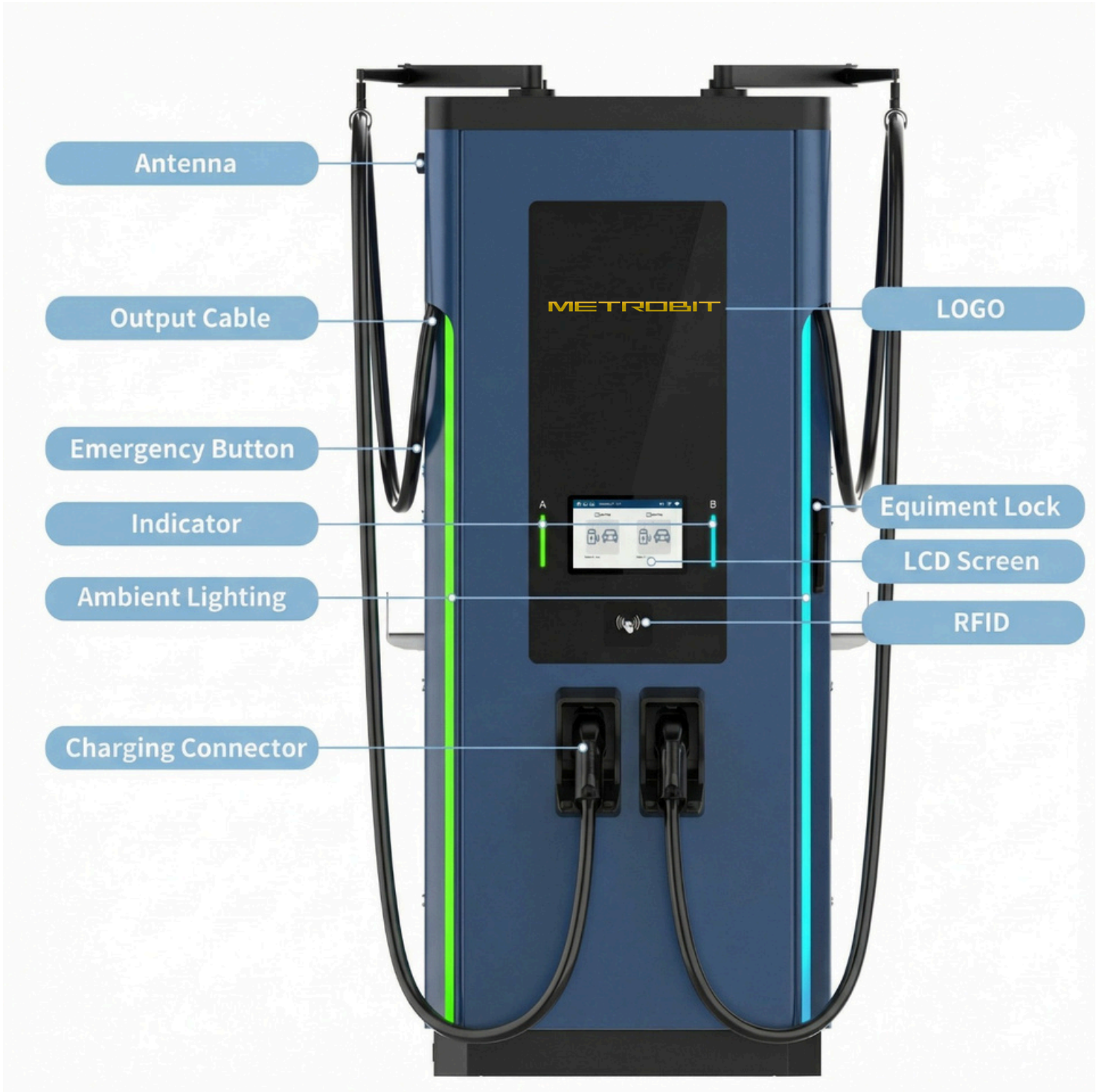
Applications

- Highway ultra-fast charging hubs
- Logistics and fleet depots
- Large commercial charging plazas
- Public high-power EV infrastructure
- Industrial and heavy-duty charging sites





Product Overview



Technical Specifications

AC INPUT				
Parameter	300kW	360kW	400kW	480kW
Input Voltage	3-phase 400VAC $\pm 10\%$, 50/60Hz, 3P+N+PE			
Earthing System	TN-C / TN-S / TN-C-S / TT			
Rated Input Current	3 Φ 480A	3 Φ 576A	3 Φ 640A	3 Φ 768A
Max Input Power	316kW	379kW	421kW	505kW
Power Factor	≥ 0.99			
Peak Efficiency	$\geq 96\%$			
THDi	$\leq 5\%$			
Standby Power Consumption	$\leq 100W$			
DC OUTPUT				
Parameter	300kW	360kW	400kW	480kW
Output Voltage Range	150–1000 VDC			
Max Output Current (System)	300A / 350A / 400A (Air Cooling) 500A / 600A (Liquid Cooling)			
Max Output Power	300kW	360kW	400kW	480kW
Number of Outputs	2 (Any two combinations of CCS2, CCS1, GBT, CHAdeMO, NACS)			
Optional Output Interfaces	3 outputs (Any three combinations incl. Type2)			
Connector Type	CCS2 / CCS1 / GBT / CHAdeMO / NACS			
Voltage Accuracy	$\leq \pm 0.5\%$			
Current Accuracy	$\leq \pm 1\%$			
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 55°C (Over 55°C derating)
Storage Temperature	-40°C to 70°C
Humidity	< 95% non-condensing
Altitude	≤2000m
Noise	≤70dB @3m, 25°C full power
PROTECTION	
Protection Features	Over voltage protection, Under voltage protection, Overload protection, Leakage current protection, Over temperature protection, Grounding protection, Surge protection, Short circuit protection, Fault self-check, Insulation detection, Soaking protection, Smoke alarm
CERTIFICATION & STANDARDS	
Item	Specification
Certificates	CE, CB, PTB
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 (Excl. Cable Management)	850 × 800 × 2050 mm
Dimensions (With Cable Management)	850 × 800 × 2120 mm
Weight	≤800kg
Cooling	Air Cooling / Liquid Cooling
Cable Length	5m
Installation	Floor Mounted

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