

## Product Description

The Metrobit Parking 20–40kW Charger is a compact DC fast charging solution designed for commercial parking facilities, workplace, and public charging applications. Available in multiple power ratings (20kW, 30kW, and 40kW), the system supports flexible connector configurations and delivers reliable charging within a 150–1000VDC output range.

With IP55 enclosure protection, IK10 mechanical rating (HMI IK8), C4 anti-corrosion compliance, and ISO15118/DIN70121 protocol compatibility, the Metrobit Parking series ensures safe and efficient EV charging in outdoor environments.

## Key Features

- Power range 20kW / 30kW / 40kW
- Output voltage range 150–1000 VDC
- Up to 133A DC output (air cooling)
- Peak efficiency  $\geq 95\%$
- Power factor  $\geq 0.99$
- IP55 protection level, IK10 rating (HMI IK8)
- C4 anti-corrosion standard
- ISO15118 / DIN70121 compliant
- OCPP 1.6J (upgradeable to 2.0.1)
- Ethernet / WiFi / optional 4G
- 10.1" touch screen interface
- Load balancing capability

## Applications

- Commercial parking facilities
- Retail and shopping centers
- Public charging stations
- Workplace charging
- Fleet and light commercial depots
- Hotels





## Product Overview



## Technical Specifications

AC INPUT			
Parameter	20kW	30kW	40kW
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 $\Phi$ 32A	3 $\Phi$ 48A	3 $\Phi$ 64A
Max Input Power	21kW	32kW	42kW
Power Factor	$\geq 0.99$		
Peak Efficiency	$\geq 95\%$		
Harmonic Distortion (THDi)	$\leq 5\%$		
Standby Power Consumption	$\leq 50W$		
DC OUTPUT			
Parameter	20kW	30kW	40kW
Output Voltage Range	150–1000 VDC		
Max Output Current (System)	66A	100A	133A
Max Output Current (Connector)	80A (Optional)	80A (Optional)	150A (Optional)
Number of Outputs	1 (Any one of CCS2, CCS1, GBT, CHAdeMO, NACS)		
	1 (Any one of CCS2, CCS1, GBT, CHAdeMO, NACS)		
	2 (Any two combinations of CCS2, CCS1, GBT, CHAdeMO, NACS)		
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 / MID Meter (Optional)		
Emergency Button	Yes		
User Authentication	RFID / QR Code / Application / POS Machine		
Support Language	English (Other languages available upon request)		
COMMUNICATION			
Parameter	Specification		
Network Connection	Ethernet / WiFi		
Optional Network	4G		
Communication Protocol	OCPP 1.6J (Upgradeable to 2.0.1)		
Charging Protocol Standards	ISO15118-1 / ISO15118-2 / ISO15118-3 / DIN70121		

\*Specifications are subject to change without prior notice

## Technical Specifications

ENVIRONMENTAL		
Parameter	Specification	
Operating Temperature Range	-30°C to 50°C (Over 50°C derating)	
Storage Temperature Range	-40°C to 70°C	
Humidity	<95% relative humidity, 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, Surge protection, Short circuit protection, Fault self-check, Insulation detection	
CERTIFICATION & STANDARDS		
Item	Specification	
Certificate	CE / CB	
Charging Standards	IEC61851-1 / IEC61851-21-2 / IEC61851-23 / IEC61851-24 / IEC62196-1 / IEC62196-3	
IP & IK Rating	IP55 & IK10 (HMI IK8)	
MECHANICAL		
Parameter	One Output	Two Output
Dimensions (W × D × H)	500 × 280 × 760 mm (Excl. cable management)	580 × 290 × 790 mm (Excl. cable management)
Weight	≤90kg	≤125kg
Cooling	Air Cooling	
Charging Cable Length	5m (Standard), 6m / 7m optional	
Installation Method	Wall-mount or Column	
Cable Management System	Optional	

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