

datasheet all-in-one solutions

Maximum power. Minimal footprint.
Standalone units from 50 kW for city centres, where experience matters most; to 150 kW where higher power meets the most demanding spaces; and 500 kW for en-route and high-throughput locations.



award winning solutions

E-Mobility Awards
2021 Winner



certifications



Cyber Security



CTEP



RETIE

Eichrecht



all-in-one solutions



BB

all-in-one 50

2
outputs

50 kW

sequential charging

32"
touchscreen

4.7m
cables w/ cable
management system*

CCS | NACS
CHAdeMO | GB/T

BB FUSION

all-in-one 150

2
outputs

up to 150 kW
in 50 kW steps

simultaneous charging
w/ dynamic power allocation

32"
touchscreen

4.7m
cables w/ cable
management system*

CCS | NACS
CHAdeMO | GB/T

AiO 500

all-in-one 500 *preliminary

2
outputs

up to 500 kW
in 100 kW steps

simultaneous charging
w/ dynamic power allocation

32"
touchscreen

3.5m
optional cooled cables*

CCS | NACS | GB/T

4.7m
w/ cable management system
optional cooled cable*

Optional PV system
for auxiliary systems

standard features

- External Antenna
- Dual SIM modem compatible w/ multi operator SIM cards
- Tilt Sensor
- Web interface for maintenance
- Second modem for maintenance

optional features

- Bank card payment terminal (AFIR compliant)
- External emergency stop function
- DC metering according to each country's regulations: Eichrecht; LNE; MID
- * other cable lengths under request



BB

BB FUSION

AiO 500 *preliminary

	BB	BB FUSION	AiO 500 *preliminary	
Input				
Input voltage [V a.c.]	360 to 530 +PE	360 to 530 +PE	360 to 530 +PE	
Nominal Input Current	76A @ 400V 63A @ 480V	N* 76A @ 400V N* 63A @ 480V	N* 76A @ 400V N* 63A @ 480V	
Input Power [kVa]	53	N* 53	N* 53	
Input Frequency [Hz]	50 / 60	50 / 60	50 / 60	
Efficiency [%]	> 96	> 96	> 97	
Power factor	> 0.99	> 0.99	> 0.99	
THDi [%]	< 4	< 4	< 4	
Output				
Number of Outputs	1 or 2	1 or 2	1 or 2	
Cable Length [m] [ft] *	4.7 15.42	4.7 15.42	3.5 11.48	4.7 (w/ CMS) 15.42 (w/ CMS)
Output CCS				
Voltage Range [V d.c.]	150 to 1000	150 to 1000	150 to 1000	
Max. Current [A d.c.]	non-cooled: 125	non-cooled: 125, 250, 375	non-cooled: 250, 375 (500 peak) cooled: 600, 700 (800 peak)	
Output CHAdEMO				
Voltage Range [V d.c.]	150 to 500	150 to 500		
Max. Current [A d.c.]	non-cooled: 125	non-cooled: 125		
Output GB/T				
Voltage Range [V d.c.]	150 to 750	150 to 750	150 to 750	
Max. Current [A d.c.]	non-cooled: 125	non-cooled: 125, 250	non-cooled: 125, 250	
Output NACS				
Voltage Range [V d.c.]	150 to 1000	150 to 1000	150 to 1000	
Max. Current [A d.c.]	non-cooled: 125	non-cooled: 125, 250, 375	non-cooled: 125, 250, 375 cooled: 600	

* other cable lengths under request
N* - number of 50 kW power modules



BB

BB FUSION

AiO 500 *preliminary

Environment

Operating Temperature [°C] [°F]	-35; +50 -31; +122	-35; +50 -31; +122	-35; +50 -31; +122
Max. Elevation [m] [ft]	2000 6560	2000 6560	2000 6560
Protection Degree	IP55	IP55	IP55
Humidity [%]	5 to 95, non-condensing	5 to 95, non-condensing	5 to 95, non-condensing
Operation Noise Level [dBA] @ 3m	< 39	< 65	TBD

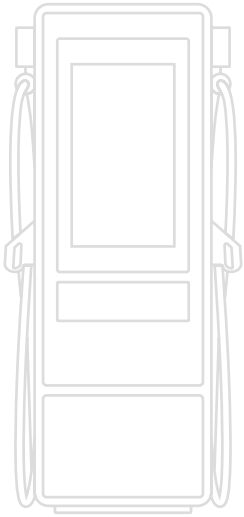
HMI

Contactless Card Specification	ISO/IEC 14443A/B, ISO/IEC 15693, Mifare, NFC reader mode; Optional: bank card reader; GooglePay and Apple pay		
Local Interface	32" Touchscreen		
Communication Protocol	OCPP 1.6 / 2.0.1 ; Modbus TCP/IP		
Network Connection	2G/3G/4G (LTE) Modem; 10/100 Base-T Ethernet		

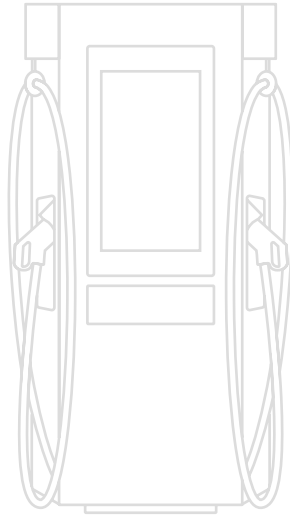
Mechanical

Impact Protection	IK10 including display	IK10 including display	IK10 including display
Housing	Steel	Steel	Steel
Corrosion Protection (ISO12944:2018)	C5	C5	C5
Weight [Kg] [lb]	330 727.52	700 1543.23	TBD

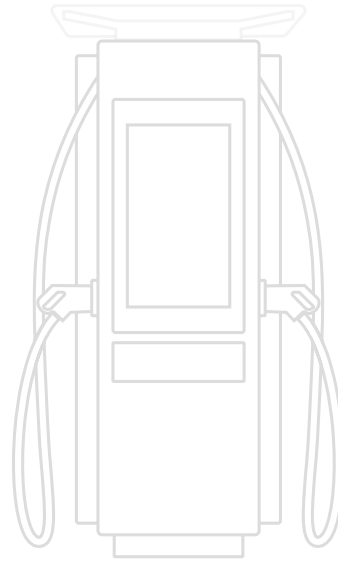
Dimensions



BB
 height 2000mm/78.74"
 length 690mm/27.16"
 depth 405mm/15.94"



BB FUSION
 height 2000mm/78.74"
 length 1000mm/39.37"
 depth 540mm/21.26"



AiO 500 *preliminary
 height 2125mm/83.66"
 height w/ CMS 2170mm /85.43"
 length 850mm/33.46"
 depth 750mm/27.17"

Standards

DC charging	EN IEC 61851-1; EN 61851-23; IEC 61851-21-2; ISO15118 including Plug&Charge; DIN70121; CHAdeMO; UL 2202; GB/T 18487.1; CSA C22.2 #46;
Connection	CCS2 / CCS1 (IEC 62196-3) ; CHAdeMO (JEVS G105) ; GB/T (20234.3); NACS (SAE J3400)
EMC emission	IEC 61000-6-4, Industrial; IEC 61000-6-3, Residential on grid input for BB & BB FUSION
EMC immunity	IEC 61000-6-2, Industrial
EU directives	LV Directive 2014/35/EU; EMC Directive 2014/30/EU; 2011/65/EU (RoHS) & 1907/2006 (REACH)

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