

datasheet distributed solutions

User units define the experience. Power units define the capacity. The distributed charging system integrates power units with user units, enabling any combination for any operation. Up to 1.6 MW, deploy the capacity you need today, expand as the operation grows, building on what is already installed.



award winning solutions

E-Mobility Awards
2021 Winner



certifications



Cyber Security



CTEP



RETIE

Eichrecht



user units



BB PLUS user unit	i-light heavy-duty user unit	e-flow control unit	satellite dispenser	satellite cooled cooled dispenser
2 outputs	1 output	-	1 output	1 output
32" touchscreen	37" glass display 10" touchscreen	10" touchscreen	-	-
4.7m cables w/ cable management system*	3.5m optional cooled cable*	-	4.7m cable*	3.5m optional cooled cable*
CCS NACS CHAdeMO GB/T	CCS MCS	-	CCS	CCS MCS

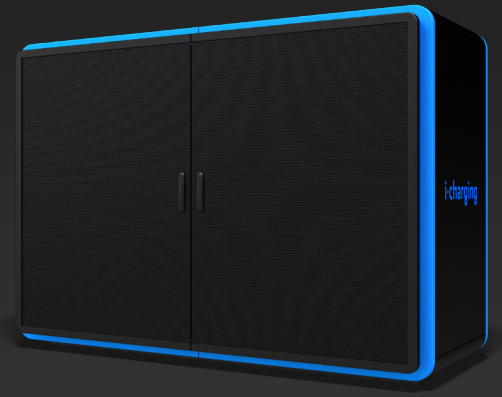
standard features

- 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

powering our solutions



PU200

power unit

PU300

power unit

MAX

power unit

up to 4
outputs deployed

up to 4
outputs deployed

up to 8
outputs deployed

1000 V

1000 V

1000 V

up to 200 kW
per power unit



up to 300 kW
per power unit



up to 1600 kW



up to 600 kW
3 power units



up to 900 kW
3 power units



-

50 kW
power modules

50 kW
power modules

50 kW
power modules

dynamic power allocation

dynamic power allocation

dynamic power allocation

-

-

combine CCS & MCS
in one single system

- 8x 800* kW
- 1x 1600* kW + 6x 800* kW
- 2x 1600* kW + 4x 800* kW
- 3x 1600* kW + 2x 800* kW
- 4x 1600* kW

* max. power per output



BB PLUS **i-light** **e-flow** **satellite** **satellite cooled**

Output

Number of Outputs	1 or 2	1	N/A	1	1
Cable Length [m]	4.7	3.5	N/A	4.7	3.5
[ft] **	15.42	11.48	N/A	15.42	11.48

Output CCS

Voltage Range [V d.c.]	150 to 1000	150 to 1000	N/A	150 to 1000	150 to 1000
Max. Current [A d.c.]	non-cooled: 125, 250, 375 (500 peak)	cooled: 600, 700 (800 peak)	N/A	non-cooled: 125, 250, 375 (500 peak)	cooled: 600, 700 (800 peak)

Output CHAdeMO

Voltage Range [V d.c.]	150 to 500	*	N/A	*	*
Max. Current [A d.c.]	non-cooled: 125	*	N/A	*	*

Output GB/T

Voltage Range [V d.c.]	150 to 750	*	N/A	*	*
Max. Current [A d.c.]	non-cooled: 125, 250	*	N/A	*	*

Output NACS

Voltage Range [V d.c.]	150 to 1000	*	N/A	*	*
Max. Current [A d.c.]	non-cooled: 125, 250, 500	*	N/A	*	*

Output MCS

Voltage Range [V d.c.]	N/A	150 to 1000 ***	N/A	N/A	150 to 1000 ***
Max. Current [A d.c.]	N/A	cooled: 1500	N/A	N/A	cooled: 1500

* under request

** other cable lengths under request

*** prepared for 1250 V



BB PLUS i-light e-flow satellite satellite cooled

Environment

Operating Temperature [°C] [°F]	-35; +50 -31; +122	-35; +50 -31; +122	-35; +50 -31; +122	-35; +50 -31; +122	-35; +50 -31; +122
Max. Elevation [m] [ft]	2000 6560	2000 6560	2000 6560	2000 6560	2000 6560
Protection Degree	IP55	IP55	IP55	IP54	IP55
Humidity [%]	5 to 95, non-condensing	5 to 95, non-condensing	5 to 95, non-condensing	5 to 95, non-condensing	5 to 95, non-condensing
Operation Noise Level [dBA] @ 3m	< 39	< 50	< 37	< 37	< 50

HMI

Contactless Card Specification	ISO/IEC 14443A/B, ISO/IEC 15693, Mifare, NFC reader mode; Optional: bank card reader, GooglePay and Apple pay			N/A	N/A
Local Interface	32" Touchscreen	37" Glass Display 10" Touchscreen	10" Touchscreen	N/A	N/A
Communication Protocol	OCPP 1.6 / 2.0.1	OCPP 1.6 / 2.0.1	OCPP 1.6 / 2.0.1	N/A	N/A
Network Connection	2G/3G/4G (LTE) Modem; 10/100 Base-T Ethernet			N/A	N/A

Mechanical

Impact Protection	IK10 including display	IK10 including display	IK10 including display	IK10	IK10
Housing	Steel	Steel	Steel	Steel	Steel
Corrosion Protection (ISO12944:2018)	C5	C5	C5	C5	C5
Weight [Kg] [lb]	271 597.45	277.5 611.78	40 88.66	77 169.75	234 515.88

All values @ 25 °C except where indicated.
 Optional features such as payment terminals may have different IP and/or IK.
 Validate with us which chargers are available in your Country/Region.
 Non-contractual information. i-charging reserves the right to change this specifications.



PU200

PU300

MAX

Input

Input voltage [V a.c.]	360 to 530 + PE	360 to 530 + PE	360 to 530 + PE
Nominal Input Current	N* 76 A @ 400 V N* 63 A @ 480 V	N* 76 A @ 400 V N* 63 A @ 480 V	N* 76 A @ 400 V N* 63 A @ 480 V
Input Power [kVa]	N* 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 Deployed	up to 4	up to 4	up to 8
Output Voltage [V d.c.]	150 to 1000	150 to 1000	150 to 1000

Environment

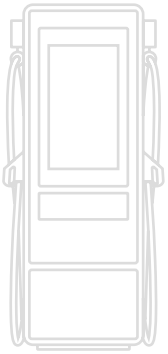
Operating Temperature [°C] [°F]	-35; +50 -31; +122	-35; +50 -31; +122	-35; +50 -31; +122
Max. Elevation [m] [ft]	2000 6560	2000 6560	2000 6560
Protection Degree	IP55	IP55	IP55
Humidity [%]	5 to 95, non condensing	5 to 95, non condensing	5 to 95, non condensing
Operation Noise Level [dBA] @ 3m	< 60	< 62	TBD

Mechanical

Impact Protection	IK10	IK10	IK10
Housing	Steel	Steel	Steel
Corrosion Protection (ISO12944:2018)	C5	C5	C5
Weight [kg] [lb]	750 1653.46	1050 2314.85	3500 7 716.18

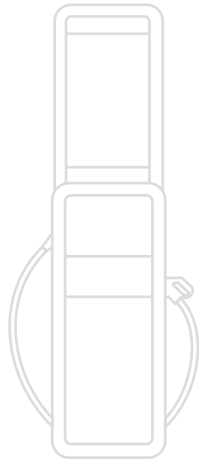
N* - number of power modules

Dimensions



BB PLUS

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



i-light

height 2550mm/100.39"
length 620mm/24.41"
depth 530mm/ 20.87"



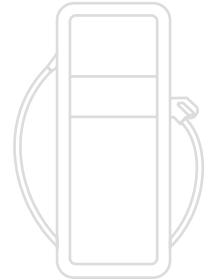
e-flow

height 700mm/27.55"
length 430mm/16.93"
depth 225mm/8.86"



satellite

height 903mm/35.55"
length 712mm/28.03"
depth 214mm/8.42"



satellite cooled

height 1530mm/60.24"
length 620mm/24.41"
depth 530mm/ 20.87"



PU200

height 1600mm/62.1"
length 1500mm/59.05"
depth 605mm/23.82"



PU300

height 2000mm/78.74"
length 1500mm/59.05"
depth 605mm/23.82"













MAX

height 2000mm/78.74"
length 2900mm/114.1"
depth 1150mm/45.28"

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
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)

Match Power & User Unit

				
		power unit 200	power unit 300	MAX
	+  satellite			
	+  bb PLUS			
	+  satellite	up to 4 outputs up to 600 kW	up to 4 outputs up to 900 kW	up to 8 outputs up to 1600 kW
	+  satellite cooled			
	-			