
600kW DC FAST CHARGER

Specifications Sheet

FC600K-B2-PS

200-1000VDC



ATOM[®]
POWER

FC600K-B2-PS

North America

Component		Dispenser	Power Cabinet
Quantity		2	1
Mechanical Size (WxDxH)	Without LED Banner	700mm x 550mm x 2,050mm (2.29ft x 1.80ft x 6.72ft)	1750mm x 1000mm x 2150mm (5.74ft x 3.28ft x 7.05ft)
	With LED Banner	700mm x 550mm x 2,310mm (2.29ft x 1.80ft x 7.57ft)	
Weight	Without LED Banner	320kg	1200kg
	With LED Banner (LED Banner: Option)	330kg	
Input	Voltage	AC277V±10% / 1P+N	AC480V±10% / 3P(R,S,T)+N
	Frequency	50/60 Hz	
	Power Factor	>0.95 (Typ)	
	Max. Current	500A	722A
Output	Voltage Range	200-1000Vdc	600kW
	Current Range	Max. 500A (Dual CCS1 with chiller)	
	Max. Power	400kW	
Cable	Type	Dual CCS1 (with chiller)	
	Length (m)	5.28m	
Efficiency		> 95% @ Max. Load	
Power Sharing	Charging Scenario	Active Power sharing Power sharing between cables Power sharing between Dispensers (4 cables simultaneous charge)	
	Increments	50kW increments	
Power Module	Max Power (kW)	25kW	
	Input (Vac)	AC 380-480V (±10%)	
	Output (Vdc)	DC 150-1000V	
	PFC (%)	PFC ≥ 0.99 at ±10%, Voltage @ >50% load	
Metering Accuracy		Less than 1%	
Networking Connection		4G, LTE Modem	
Communication Protocol		OCPP 1.6j (Core : Supported) (OCPP 2.0.1 minimum : Upon request)	
User Interface	LCD Display	32FHD (1920x1080) Touch Screen	
	User Authentication	RFID (ISO/IEC 14443A/B, ISO15693)	
	Payment	Nayax VPOS : IC Reader, NFC (Mifare), Payter P68 : NFC (Mifare)	
	Cable Management	√	
	Emergency Button	√	
Operation Button	√ (3 buttons)		
Environmental	Operating Temp. (°C)	-35°C to +55°C (with derating) (-31°F to +134.6°F)	
	Storage Temp (°C)	-40°C to +70°C (-40°F to +158°F)	
	Humidity (%)	5 to 95% R.H. without condensing	
	Altitude (m)	2,000m (6561ft)	
	Noise Level	< 60dB	
Enclosure Design	IP Level	Outdoor, NEMA 3R	
	IK Level	IK10 (Touch screen, IK08)	
	Filter Rating	G2 Filter	
	Air Flow Design	Ventilation by fan control	



Atom Power, Inc.
13245 Reese Blvd. W.
Suite 130
Huntersville, NC 28078

www.atompower.com
(844) 704-2866
info@atompower.com

FC600K-B2-PS

North America

Lightings		Front Door Light only (Full RGB LEDs) LED Banner for front & rear sides																
Protective Function		<table border="0"> <tr> <td>Over Voltage Protection</td> <td>Over Voltage Protection</td> </tr> <tr> <td>Over Current Protection</td> <td>Over Current Protection</td> </tr> <tr> <td>RCD Type A + DC 6mA</td> <td>RCD Type A</td> </tr> <tr> <td>Proximity loss Protection</td> <td>Proximity loss Protection</td> </tr> <tr> <td>Over Temperature Protection</td> <td>Over Temperature Protection</td> </tr> <tr> <td>FG Disconnection Detect Protection</td> <td>FG Disconnection Detect Protection</td> </tr> <tr> <td>SPD (Surge Protection)</td> <td>SPD (Surge Protection)</td> </tr> <tr> <td>IMD (Insulation monitor device)</td> <td>IMD (Insulation monitor device)</td> </tr> </table>	Over Voltage Protection	Over Voltage Protection	Over Current Protection	Over Current Protection	RCD Type A + DC 6mA	RCD Type A	Proximity loss Protection	Proximity loss Protection	Over Temperature Protection	Over Temperature Protection	FG Disconnection Detect Protection	FG Disconnection Detect Protection	SPD (Surge Protection)	SPD (Surge Protection)	IMD (Insulation monitor device)	IMD (Insulation monitor device)
Over Voltage Protection	Over Voltage Protection																	
Over Current Protection	Over Current Protection																	
RCD Type A + DC 6mA	RCD Type A																	
Proximity loss Protection	Proximity loss Protection																	
Over Temperature Protection	Over Temperature Protection																	
FG Disconnection Detect Protection	FG Disconnection Detect Protection																	
SPD (Surge Protection)	SPD (Surge Protection)																	
IMD (Insulation monitor device)	IMD (Insulation monitor device)																	
Regulation	Certificate Mark Safety EMC Metering Charging Interface	NRTL (UL) UL2202, UL2231-1, UL2231-2, UL991, UL1998, CSA FCC Part 15 CTEP (NTEP) (To be discussed) DIN70121, ISO15118-2 (PnC)																



Atom Power, Inc.
 13245 Reese Blvd. W.
 Suite 130
 Huntersville, NC 28078

www.atompower.com
 (844) 704-2866
info@atompower.com