

South Base Test Facility Electric Bus Charger Summary

ID	OEM	Charger Type	Charger Model	Rated Output Power	In-Service Date
EVS-D-1	ABB	Depot Plug-in	HVC150C	150 kW	April 2022
EVS-P-1	ABB	Mast Pantograph	HVC450PD	450 kW	April 2022
EVS-P-4	ABB	Gantry Pantograph	HVC450PD	450 kW	April 2022
EVS-P-7	ABB	Gantry Pantograph	HVC450PD	450 kW	April 2022
EVS-D-2	Heliox	Depot Plug-in	HE9821001	180 kW	April 2022
EVS-P-2	Heliox	Mast Pantograph	HE9818042	450 kW	April 2022
EVS-P-5	Heliox	Gantry Pantograph	HE9818042	450 kW	April 2022
EVS-P-8	Heliox	Gantry Pantograph	HE9818042	450 kW	April 2022
TBD	ABB	Gantry Pantograph	TBD	360 kW	TBD (2024)
TBD	Heliox	Gantry Pantograph	TBD	180 kW	TBD (2024)
TBD	Heliox	Gantry Pantograph	TBD	180 kW	TBD (2024)

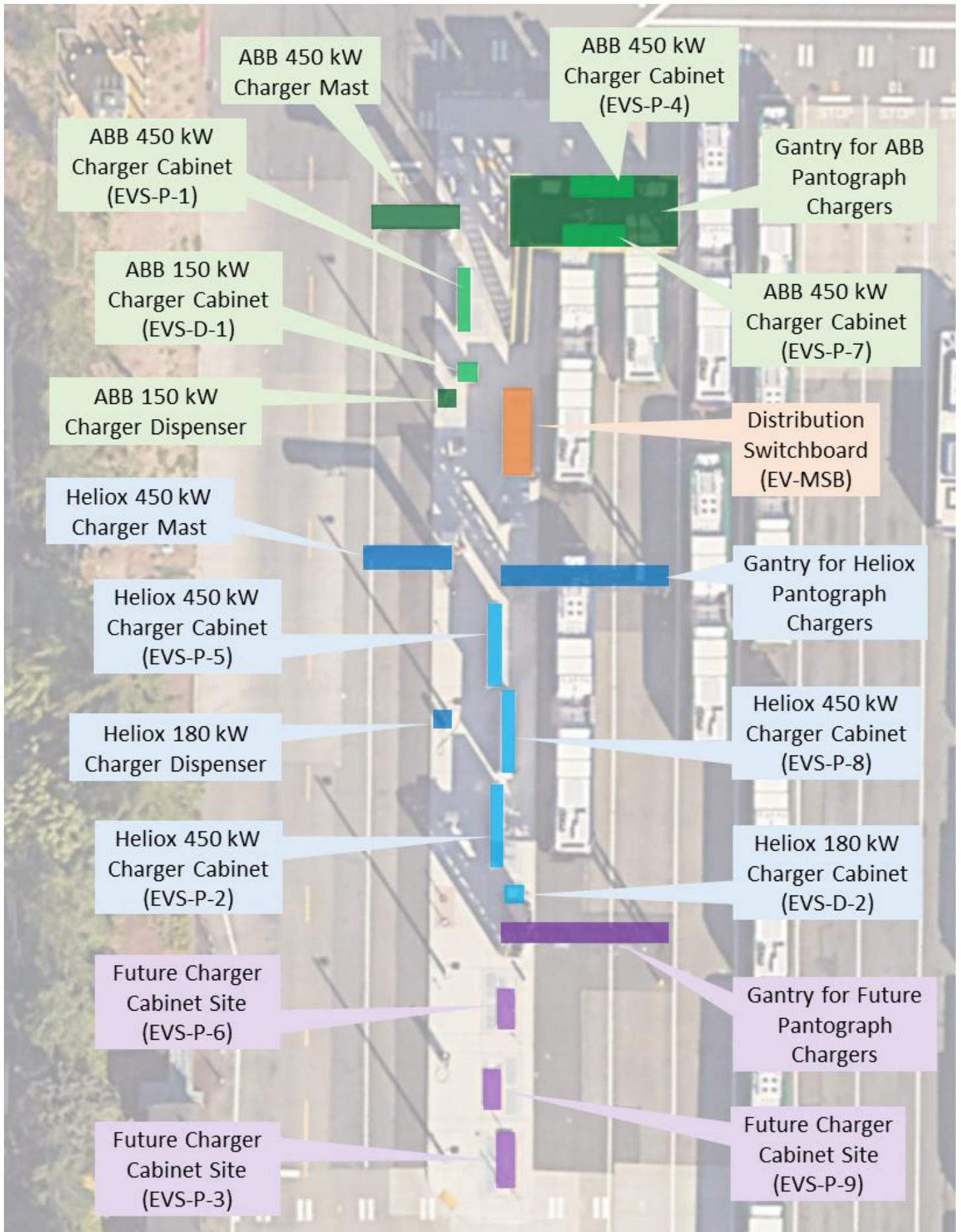


ABB Depot Plug-in Charger (150 kW)



General Specifications	
Charger Type	Depot Charger
Charger Manufacturer	ABB
Charger Model	HVC 150C E-Bus Charger, Model HVC150C
Rated DC Output Power	150 kW
Maximum DC Output Current	250 A
Output DC Voltage Range	150 – 850 V
Maximum Input Power	174 kVA
Standards	
Charging Standard	SAE J1772
Communication Standard	ISO 15118/DIN 70121/IEC 61851
Environment Operating	Indoor/Outdoor
Back Office	OCPP 1.6J
BEB Compatibility with Charger	
KCM BEBs Compatible w/ Charger	New Flyer XE40 & XE60
Maximum Charge Accepted by BEBs	New Flyer XE40: 150 kW New Flyer XE60: 150 kW

ABB Mast Pantograph Charger (450 kW)



General Specifications	
Charger Type	Mast Pantograph Charger
Charger Manufacturer	ABB
Charger Model	HVC 450 E-Bus Charger, Model HVC450PD
Pantograph Manufacturer	Stemmann
Pantograph Model	Roof-Mounted Pantographs
Rated DC Output Power	450 kW
Max DC Output Current	600 A
Output DC Voltage Range	150 – 850 V
Maximum Input Power	510 kVA
Standards	
Charging Standard	SAE J3105-1
Communication Standard	ISO 15118/DIN 70121/IEC 61851
Environment Operating	Indoor/Outdoor
Back Office	OCPP 1.6J
BEB Compatibility with Charger	
KCM BEBs Compatible w/ Charger	New Flyer XE40 & XE60
Maximum Charge Accepted	New Flyer XE40: 220 kW New Flyer XE60: 220 kW

ABB Gantry Pantograph Charger (450 kW)



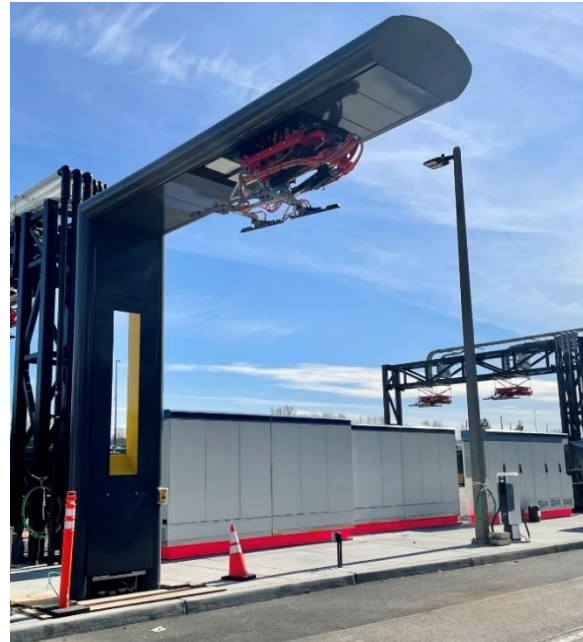
General Specifications	
Charger Type	Gantry Pantograph Charger
Charger Manufacturer	ABB
Charger Model	HVC 450 E-Bus Charger, Model HVC450PD
Pantograph Manufacturer	Stemmann
Pantograph Model	Roof-Mounted Pantographs
Rated DC Output Power	450 kW
Max DC Output Current	600 A
Output DC Voltage Range	150 – 850 V
Maximum Input Power	510 kVA
Standards	
Charging Standard	SAE J3105-1
Communication Standard	ISO 15118/DIN 70121/IEC 61851
Environment Operating	Indoor/Outdoor
Back Office	OCPP 1.6J/2.0
BEB Compatibility with Charger	
KCM BEBs Compatible w/ Charger	New Flyer XE40 & XE60
Maximum Charge Accepted	New Flyer XE40: 220 kW New Flyer XE60: 220 kW

Heliox Depot Plug-in Charger (180 kW)



General Specifications	
Charger Type	Depot Charger
Charger Manufacturer	Heliox
Charger Model	FLEX 180 kW HPC, Model HE9821001
Rated DC Output Power	180 kW
Max DC Output Current	250 A
Output DC Voltage Range	200 – 1000 V
Maximum Input Power	205 kVA
Standards	
Charging Standard	SAE J1772
Communication Standard	ISO 15118/DIN 70121/IEC 61851
Environment Operating	Indoor/Outdoor
Back Office	OCPP 1.6J/2.0
BEB Compatibility with Charger	
KCM BEBs Compatible w/ Charger	New Flyer XE40 & XE60
Maximum Charge Accepted	New Flyer XE40: 180 kW New Flyer XE60: 180 kW

Heliox Mast Pantograph Charger (450 kW)



General Specifications	
Charger Type	Mast Pantograph Charger
Charger Manufacturer	Heliox
Charger Model	OC 450kW UL IP OppCharge, Model HE9818042
Pantograph Manufacturer	Schunk
Pantograph Model	EM Fast Inverted Pantograph, Model SLS 201.106
Rated DC Output Power	450 kW
Max DC Output Current	900 A
Output DC Voltage Range	460 – 800 V
Maximum Input Power	485 kVA
Standards	
Charging Standard	SAE J3105-1
Communication Standard	ISO 15118/DIN 70121/IEC 61851
Environment Operating	Indoor/Outdoor
Back Office	OCPP 1.6J/2.0
BEB Compatibility with Charger	
KCM BEBs Compatible w/ Charger	New Flyer XE40 & XE60
Maximum Charge Accepted	New Flyer XE40: 220 kW New Flyer XE60: 220 kW

Heliox Gantry Pantograph Charger (450 kW)



General Specifications	
Charger Type	Gantry Pantograph Charger
Charger Manufacturer	Heliox
Charger Model	OC 450kW UL IP OppCharge, Model HE9818042
Pantograph Manufacturer	Schunk
Pantograph Model	EM Fast Inverted Pantograph, Model SLS 201.106
Rated DC Output Power	450 kW
Max DC Output Current	900 A
Output DC Voltage Range	460 – 800 V
Maximum Input Power	485 kVA
Standards	
Charging Standard	SAE J3105-1
Communication Standard	ISO 15118/DIN 70121/IEC 61851
Environment Operating	Indoor/Outdoor
Back Office	OCPP 1.6J
BEB Compatibility with Charger	
KCM BEBs Compatible w/ Charger	New Flyer XE40 & XE60
Maximum Charge Accepted	New Flyer XE40: 220 kW New Flyer XE60: 220 kW