



Product Specifications

DC-FLEX



50kW DC-FED CHARGING STATION

Product Highlights

DC-FLEX is the latest product in Tritium's FLEX Family – the industry's leading DC fast charging platform. DC-FLEX is a modern, high performance, 50kW DC-fed charging station optimized for large scale fleet and retail charging.

50kW charging via CCS and NACS connectors

Cost optimized for large-scale deployments

Highly efficient 25kW power modules with lifetime warranty

Advanced liquid cooled power electronics

IP65 sealed enclosure for harsh environments

360-degree status lighting

DC Meter and Credit Card Reader options

Wall and pedestal mount options



Wall mount charging station

Pedestal option available

System Characteristics

Input Voltage: 850–950VDC
Input Current: 65A @ 800VDC
Output Power: 50kW (2 x 25kW simultaneous)
Output Voltage: 150-1000VDC
Output Current: 125A
Charging Cable Types: CCS NACS
Charging Cable Lengths: 6m with cable management †
Efficiency: 97.9%
HMI: 10.1” LCD with customizable user interface
DC Meter: optional for NTEP Eichrecht DE-M LNE

† longer cables available without cable management

Electrical Safety

Surge Protection: Class I+II SPD (IEC 61643-31), Type 2 component assembly (UL 1449)
Electrical Protections: Over current, over voltage, under voltage, short circuit, over temperature
Event Sensors: Tilt and door ingress

Environmental

Maximum Operating Altitude: 3000m (9840')
Operating Temperature: –35°C to +55°C (–31°F to +131°F)
Storage Temperature: –40°C to +60°C (–40°F to +140°F)
Impact Protection Rating: IK10
Ingress Protection Rating: IP65 NEMA Type 3R enclosure
Noise Emissions: ≤ 65 dB(A) @ 1 m, full power 25°C (77°F)

Communication & Protocols

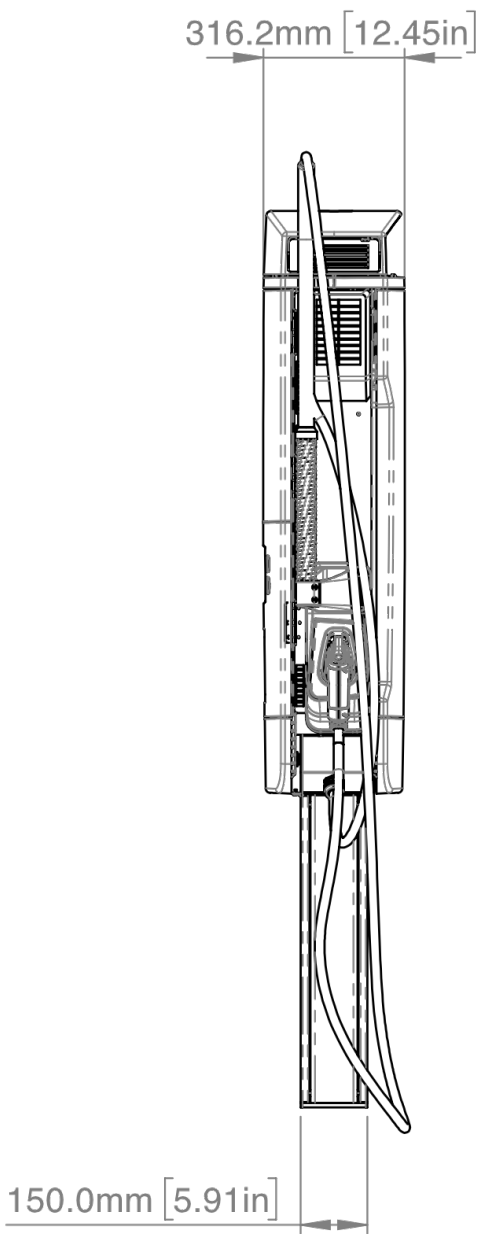
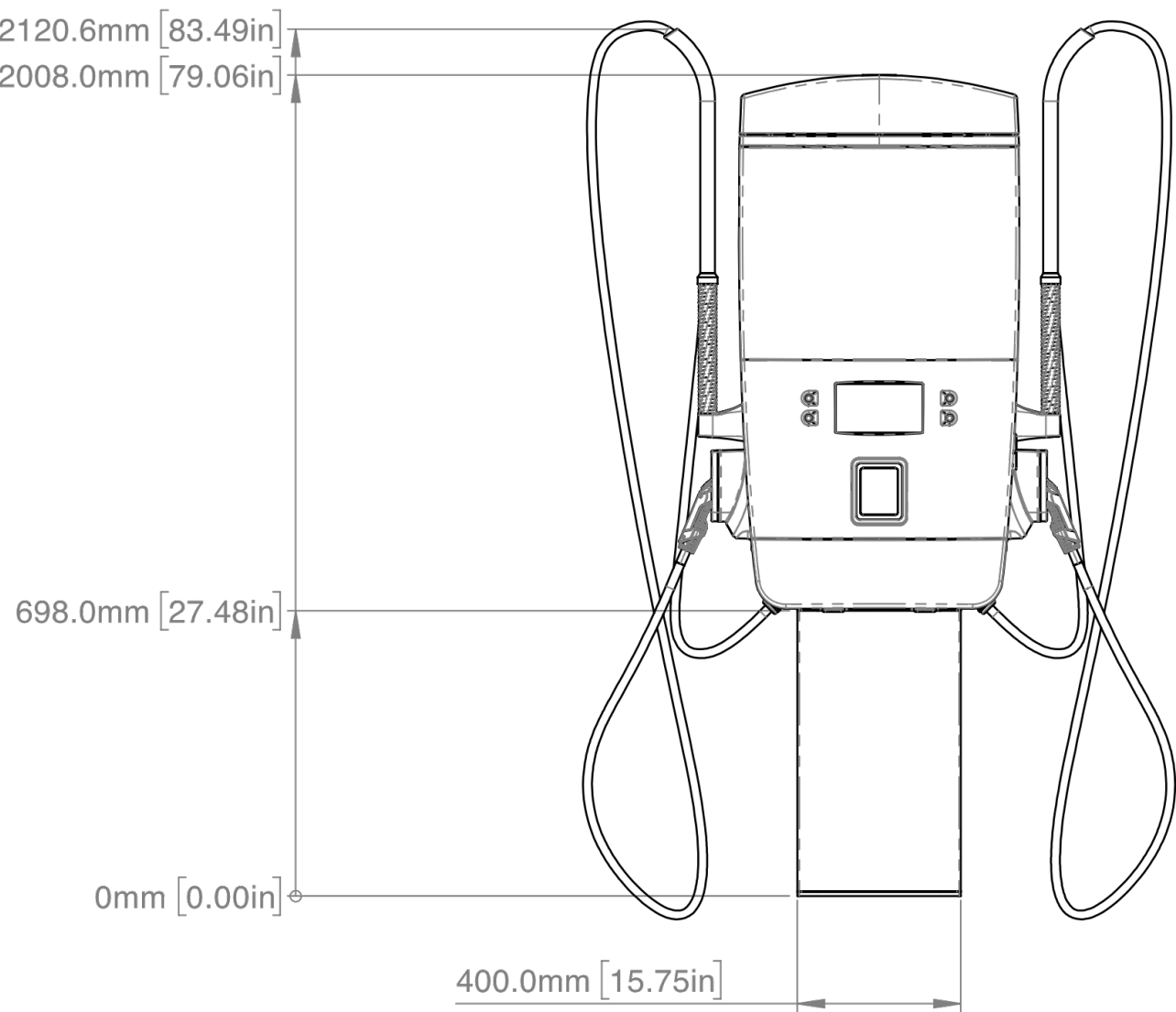
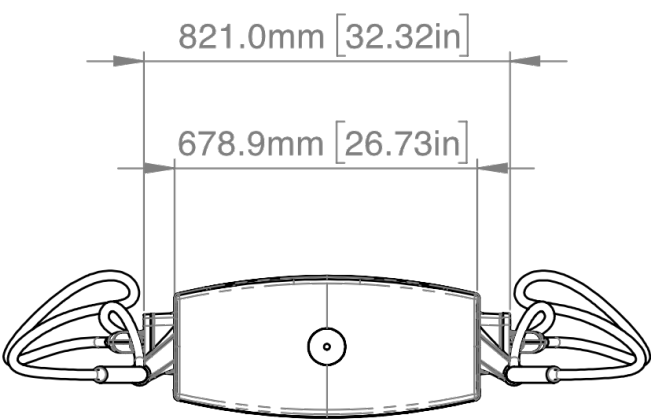
Network Connection: Ethernet Cellular 4G/LTE
Remote Management: MyTritium (customer web portal)
Remote management capabilities: Configuration, diagnostics and software update
Authentication Methods: RFID: MI-FARE ISO/IEC 14443A/B ISO/IEC 15693 ISO/IEC 18000-3 FeliCa NFC Credit Card: Credit card terminals – various models Remote start: mobile application Vehicle: ISO15118 Plug and Charge Autocharge Free mode: no authentication
Communication Protocols: EVSE to EV: ISO 15118-2, DIN 70121 ISO 15118-20 ready EVSE to CSMS: OCPP 1.6J 2.0.1

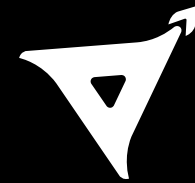
Standards

Europe CE: Product Safety: IEC 61851-1, IEC 61851-23, EMC: IEC 61851-21-2, Radio: ETSI, EN 301 489-1, ETSI EN 301 489-3, ETSI EN 301 489-52, RF Exposure: IEC 62311
North America UL/CSA: USA: Product Safety: UL 2202, EMC: FCC 47 CFR Part 15 Subpart B, Radio: FCC 47 CFR Part 15 Subpart C, RF Exposure: FCC 2.1091, Canada: Product Safety: CSA C22.2 No. 346, EMC: ICES-003, Radio: RSS-210, RF Exposure: RSS-102

Physical

Height:	1310mm (51.57")
Height with Pedestal:	2008mm (79.06") enclosure 2120mm (83.49") including cables
Width:	679mm (23.73") enclosure 821mm (32.32") including holsters
Depth:	316mm (12.45")
Weight (estimated):	200kg (441 lbs)





TRITIUM™

AMERICAS • APAC • EUROPE • UK

tritiumcharging.com



Designed in Australia



Manufactured in U.S.A