



Product Specifications

TRI-FLEX



DISPENSER

Product Specifications

Range of dispenser power levels 100kW, 400kW, 600kW and 800kW

Dynamic load management with 25kW power sharing resolution

360-degree status lighting

CCS and NACS connectors

Liquid cooled & dry charging cables supported

Easy to use cable management system

Various integrated payment terminal options

Large branding surfaces

IP65 sealed enclosure for harsh environments

System Characteristics

Output Voltage: 150-1000V DC

Supported Connectors: CCS1 | CCS2 | NACS

Cable Management: Dual swing-arm assembly to maximise cable reach

Authentication Support:

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

Remote Management: Configuration, diagnostics, software update via OCPP

Communication Protocols:

EVSE to EV: ISO 15118-2, DIN 70121 | ISO 15118-20 ready

EVSE to CSMS: OCPP 1.6J | 2.0.1 ready

Electrical Protections: Over current, over voltage, under voltage, short circuit, insulation monitoring, over temperature

Event Sensors: Tilt and door ingress

Accessibility: Meets Americans with Disabilities Act (ADA) and EN 301 549 Accessibility Height Requirements, DIN SPEC 91504:2024-11

Environmental

Maximum Operating Altitude : 3000m (9840ft)

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)

Quiet Mode: ≤ 55 dB(A)

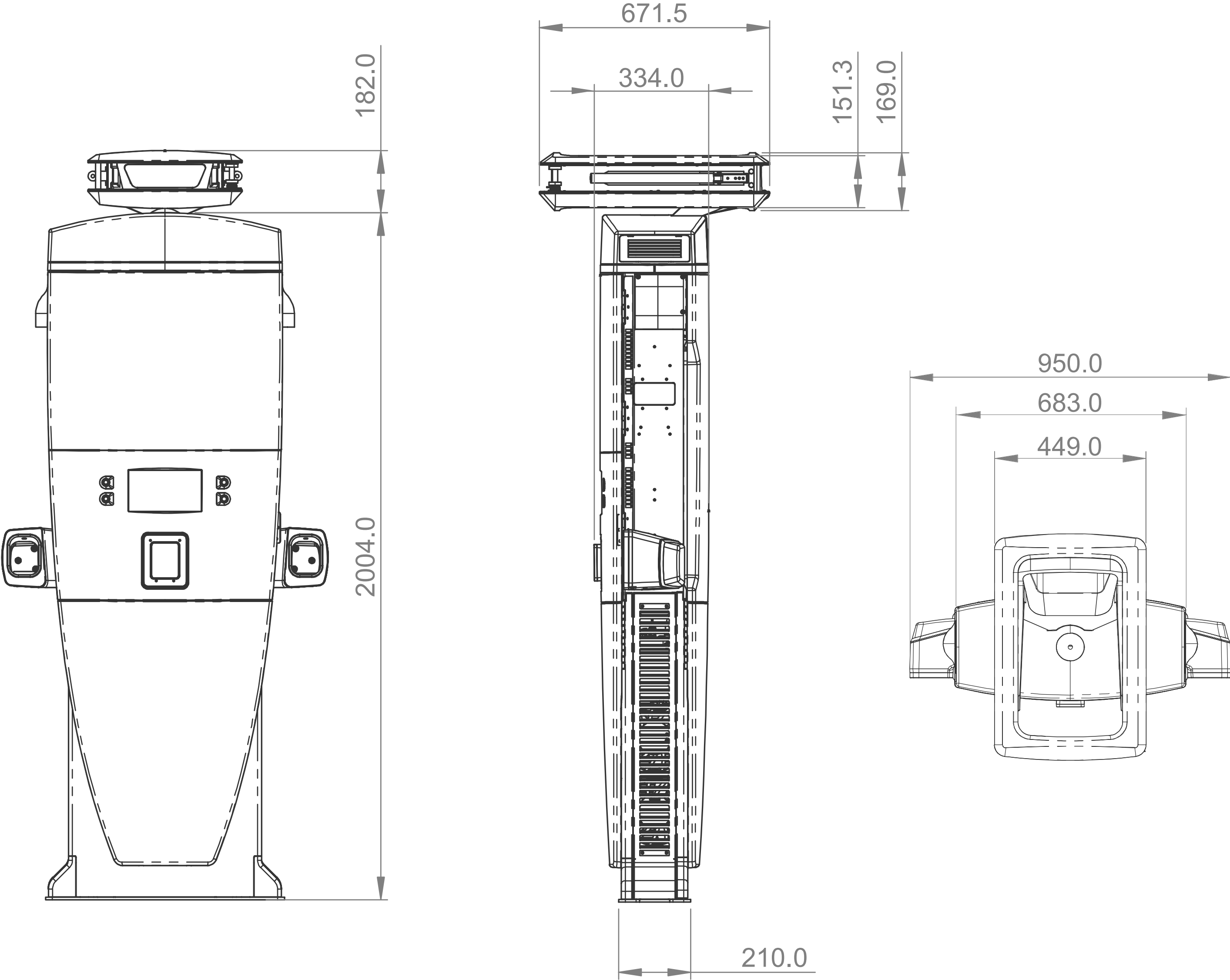
Physical

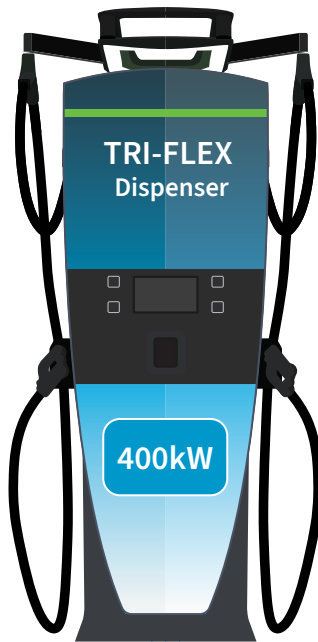
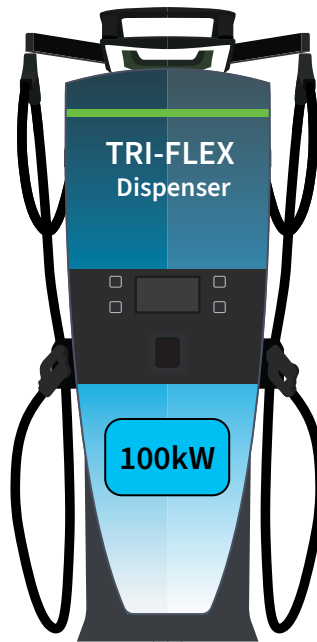
Enclosure Only:

Height	2004mm (78.9")
Width	683mm (26.9")
Depth	334mm (13.2")
Weight	225 kg (497 lbs)
Shipping Weight	280 kg (618 lbs)

With Cable Management:

Height	2186mm (86.1")
Width	950mm (37.4")
Depth	671.5mm (26.4")
Weight	270 kg (596 lbs)
Shipping Weight	325 kg (717 lbs)





	DUAL CABLE			SINGLE CABLE
DISPENSER POWER	100kW*	400kW	600kW	800kW*
SUPPORTED CABLES	CCS NACS			
CABLE COOLING METHOD	Dry	Liquid	Liquid	Liquid
SUPPORTED CABLES LENGTHS	3.5m (11ft 5in) 10m (32ft 9in)** 6m (19ft 8in) with cable management*	3.5m (11ft 5in) 6m (19ft 8in) with cable management	3.5m (11ft 5in) 6m (19ft 8in) with cable management	3.5m (11ft 5in)
METERING	MID Eichrecht NTEP CTEP			
PAYMENT TERMINALS	Payter Apollo Ingenico Self 2000 Nayax VPOS			
CABLE RATING OPTIONS	250A Dry	500A Liquid Cooled (Boost to 600A)	600A Liquid Cooled	800A Liquid Cooled
BRANDING	Custom Vinyls Custom Powder Coating †			

* 100kW and 800kW dispensers available soon

** 10m dry cable options available soon

† Powder coating subject to MOQ

POWER CABINET FLEX HUB

Product Specifications

Supports full range of TRI-FLEX dispenser options

400kW to 1.6MW grid input

Industry-leading power density

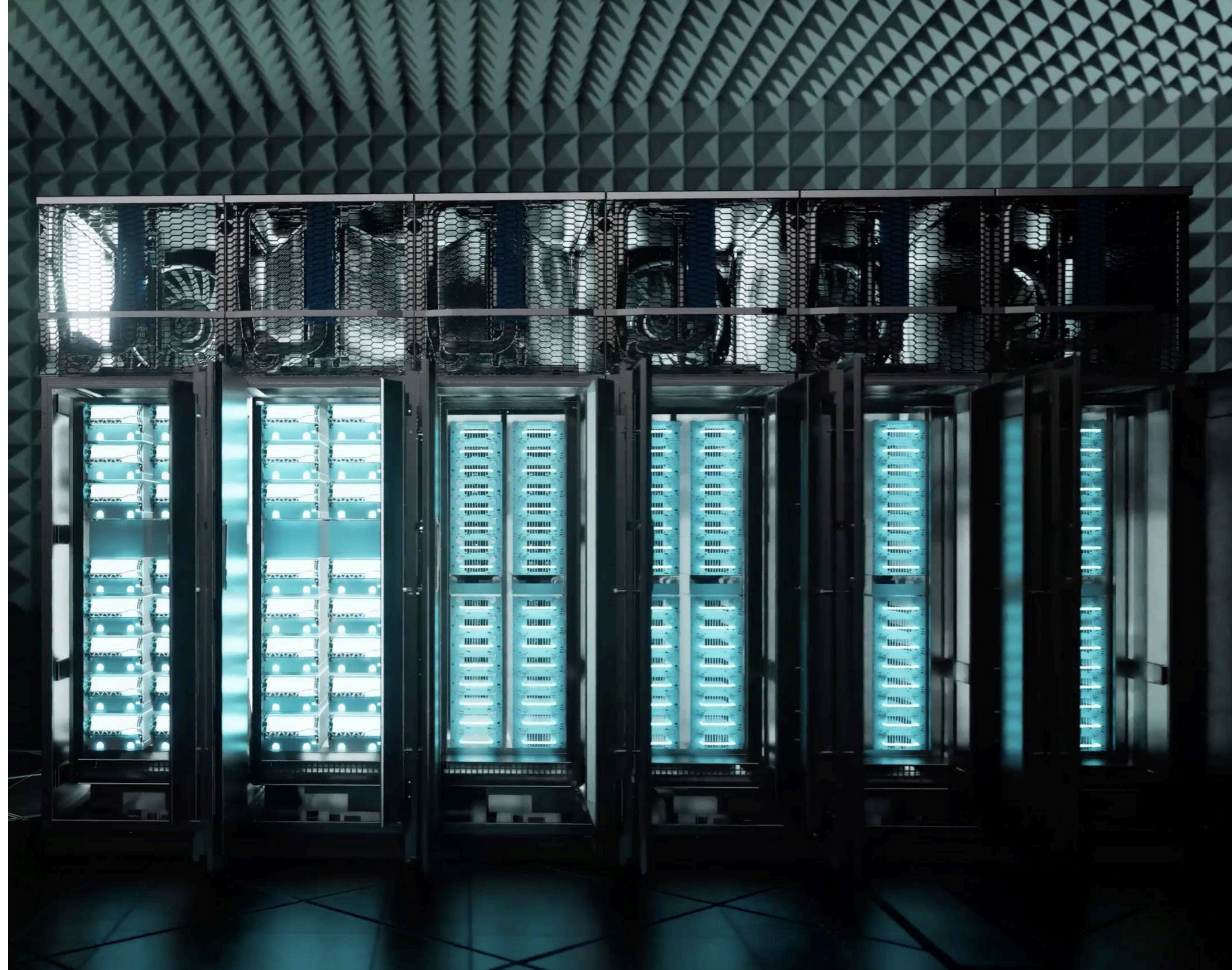
Advanced liquid cooled power electronics

Connect up to 32 dual cable dispensers

IP65 sealed enclosure for harsh environments

DC integration with batteries and microgrids

Large branding surfaces



System Characteristics

Grid Voltage: 400VAC 3ph +10%/-15% | 480VAC 3ph +10%/-15%

Grid Frequency: 50Hz ± 10% | 60Hz ± 10%

Efficiency: 97.2%

Communication Protocol: OCPP 1.6J | OCPP 2.0.1 ready

Network Communications: Ethernet or Cellular SIM 4G/LTE

Earthing Systems: TT, TN-C-S, TN-S, TN-C, IT

Local load management interface: MODBUS TCP

Dynamic Power Factor control: 0.0 lagging to 0.0 leading

Total Harmonic Distortion (Thd): <5%

Remote management: Configuration, diagnostics and software update via OCPP

Electrical Safety

Surge Protection: Type 1+2 SPD

Input Overvoltage Category: Category III

Short Circuit Current Rating: 65kA

Electrical Protections: Over current, over voltage, under voltage, short circuit, over temperature

Under-Voltage Relay or Shunt Trip: Optional

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

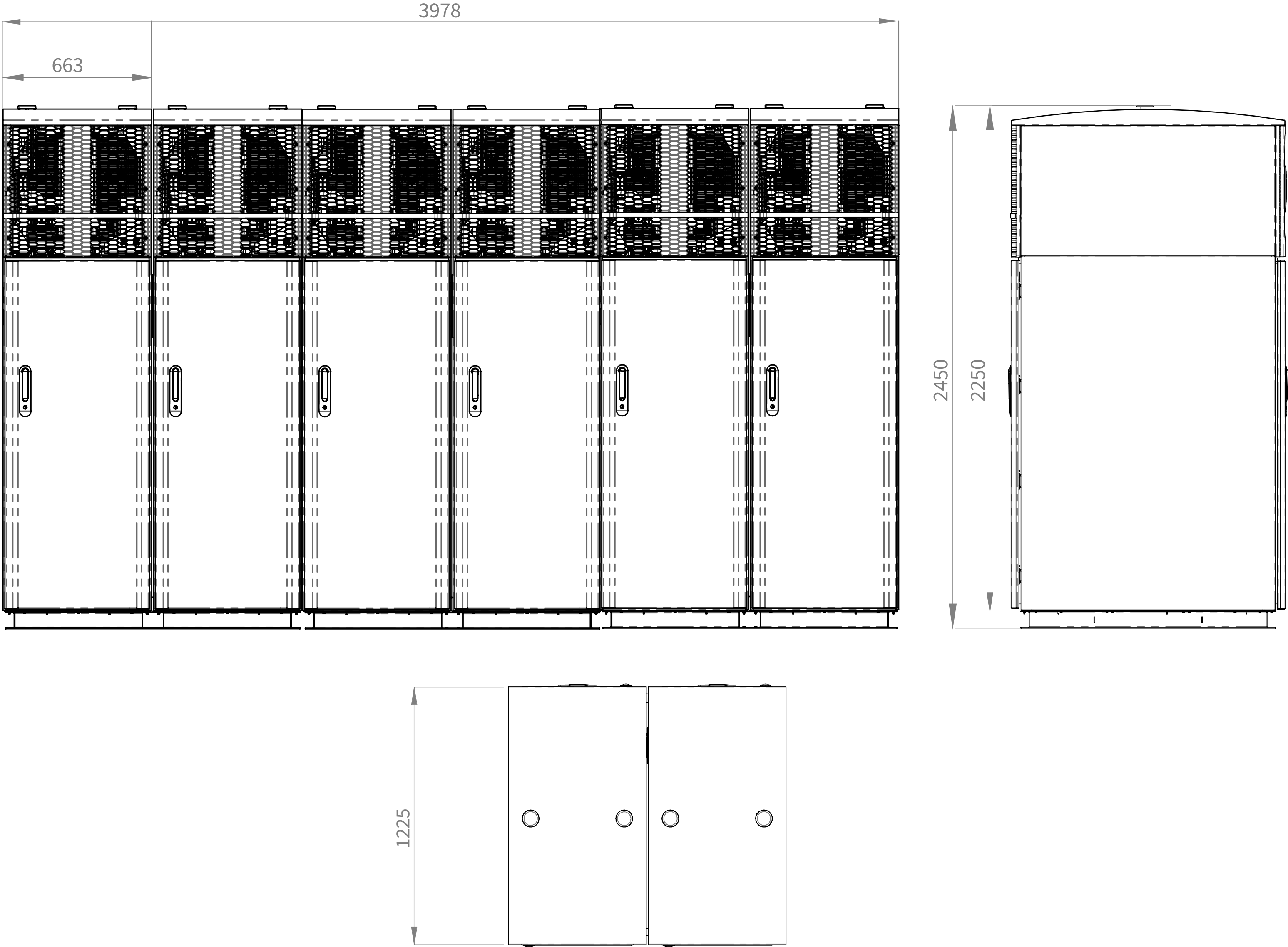
Noise Emissions: ≤ 65 dB(A) @ 1 m, full power 25°C (77°F)

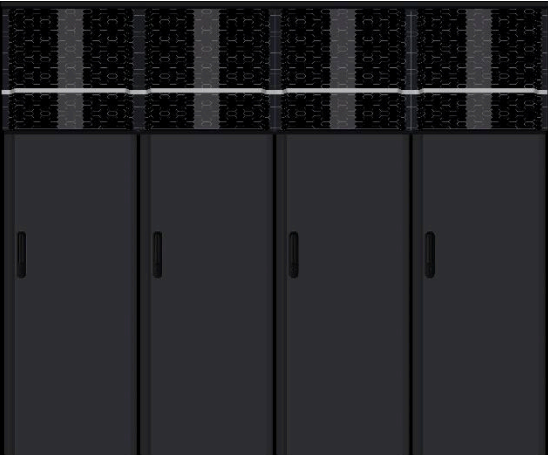
Quiet Mode: ≤ 55 dB(A)



Physical

	Rectification Unit	DC Power Unit
Height	2250 mm (88.58")	2250 mm (88.58")
Height with plinth	2450mm (96.46")	2450mm (96.46")
Width	663 mm (26.1")	663 mm (26.1")
Depth	1225 mm (48.2")	1225 mm (48.2")
Weight	880kg (1940 lbs)	840kg (1852 lbs)





	400KW - 800KW GRID CONNECTION	1000KW - 1600KW GRID CONNECTION	
DISPENSER POWER	NUMBER OF DISPENSERS		
100kW	8 (dual cable)	16 (dual cable)	32 (dual cable)
400kW	4 (dual cable)	8 (dual cable)	16 (dual cable)
600kW	3 (dual cable)	6 (dual cable)	12 (dual cable)
800kW	4 (single cable)	8 (single cable)	16 (single cable)
SUPPLY CURRENT			
Nominal Input Current	400V AC : 1260A 480V AC : 1050A	400V AC : 2520A 480V AC : 2100A	
Low Line Input Current	400V AC: 1290A 480V AC: 1170A	400V AC : 2580A 480V AC : 2340A	
DIMENSIONS			
Height	2250mm (88.58")	2250mm (88.58")	2250mm (88.58")
Height with plinth	2450mm (96.46")	2450mm (96.46")	2450mm (96.46")
Width	1326mm (52.2")	2652mm (104.4")	3978mm (156.6")
Depth	1225mm (48.2")	1225mm (48.2")	1225mm (48.2")
Weight	1720 kg (3792 lbs)	3440 kg (7584 lbs)	5120 kg (11,288 lbs)

DISPENSER COMPLIANCE

Standards

Europe: CE	IEC 61851-1, IEC 61851-23, IEC 62311, IEC 61851-21-2, ETSI EN 303 446-1, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 301 489-52
North America: UL / CSA	USA: UL 2202, 47 CFR § 1.130, FCC 47 CFR Part 15 B, FCC certified GSM (4G) Canada: CSA C22.2, RSS-210 and SPR-002, ICES-003, ISED certified GSM (4G)

Environmental

Global	RoHS WEEE
The TRI-FLEX product does not contain fluorinated greenhouse gases, nor is the functionality dependent on fluorinated greenhouse gases. Regulation (EU) 2024/573 does not apply.	

Cyber security

Global	ISO 27001
EU	EU Cyber Resilience Act

Legal Metrology

Europe	MID	USA National	NTEP †
France	LNE	California	CTEP †
Germany	Eichrecht †		

† Pending Certification Completion

POWER CABINET COMPLIANCE

Standards

Europe: CE	IEC 61851-1, IEC 61851-23, IEC 62311, IEC 61851-21-2, ETSI EN 303 446-1, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 301 489-52 VDE-AR-N 4110 (50Hz & 60Hz), IEEE-519 (50Hz & 60Hz)
North America: UL / CSA	USA: UL 2202, 47 CFR § 1.130, FCC 47 CFR Part 15 B, FCC certified GSM (4G) Canada: CSA C22.2, RSS-210 and SPR-002, ICES-003, ISED certified GSM (4G)

Environmental

Global	RoHS WEEE

Cyber security

Global	ISO 27001
EU	EU Cyber Resilience Act



TRITIUM™

AMERICAS • APAC • EUROPE • UK

tritiumcharging.com



Designed in Australia



Manufactured in U.S.A