



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)

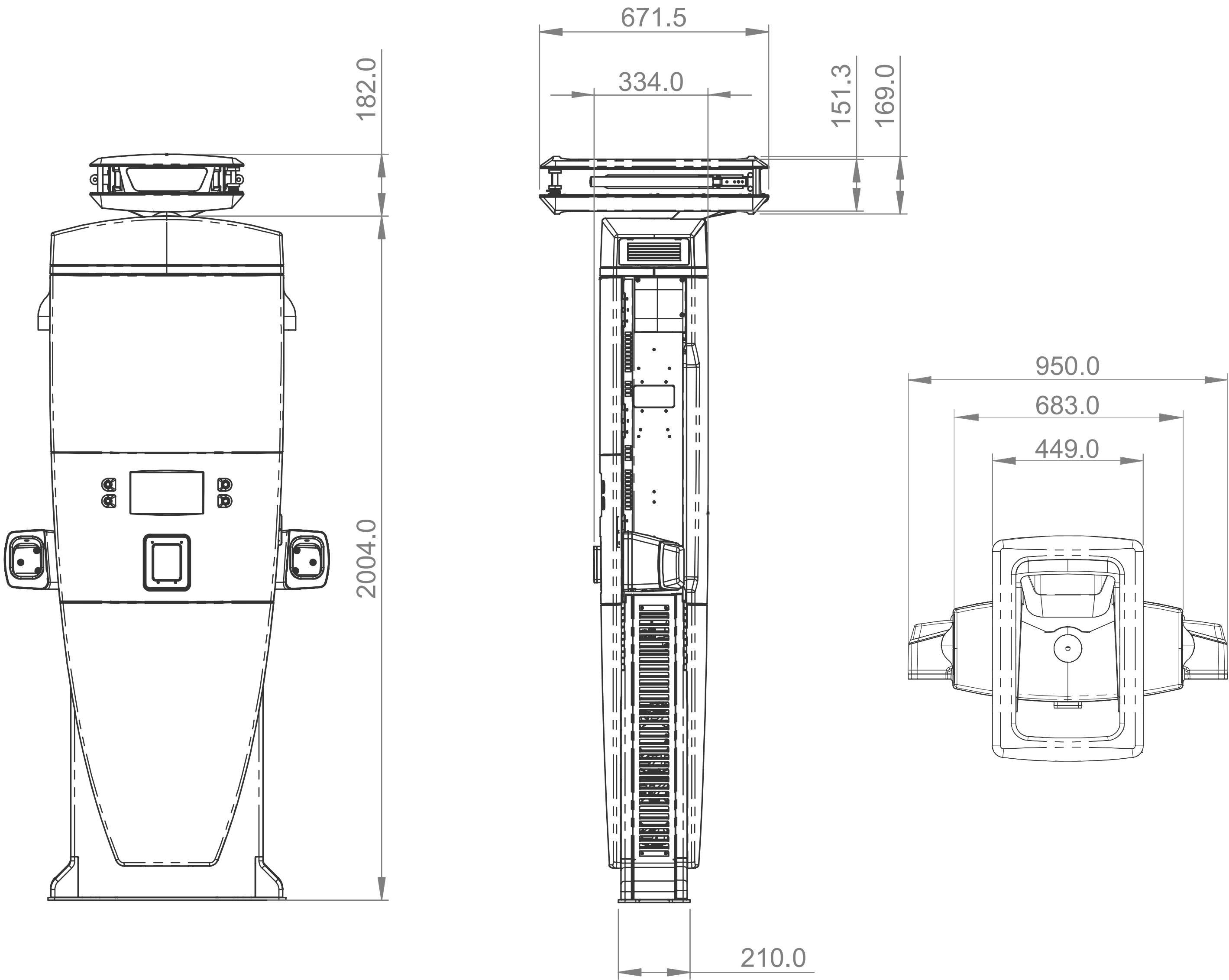
# Physical

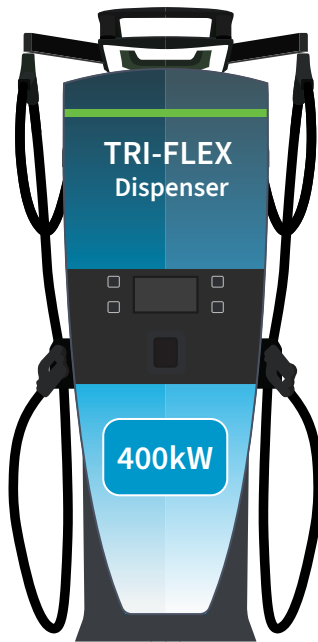
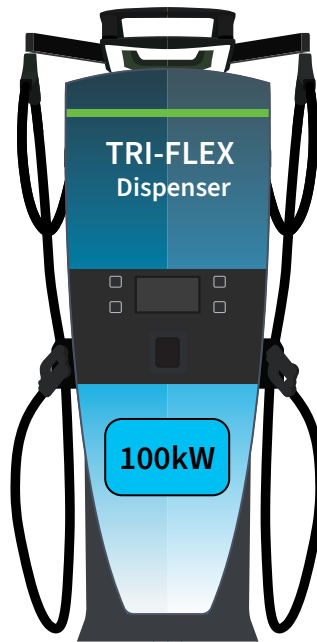
## Enclosure Only:

|                 |                  |
|-----------------|------------------|
| 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)**<br>6m (19ft 8in) with cable management* | 3.5m (11ft 5in)<br>6m (19ft 8in) with cable management | 3.5m (11ft 5in)<br>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

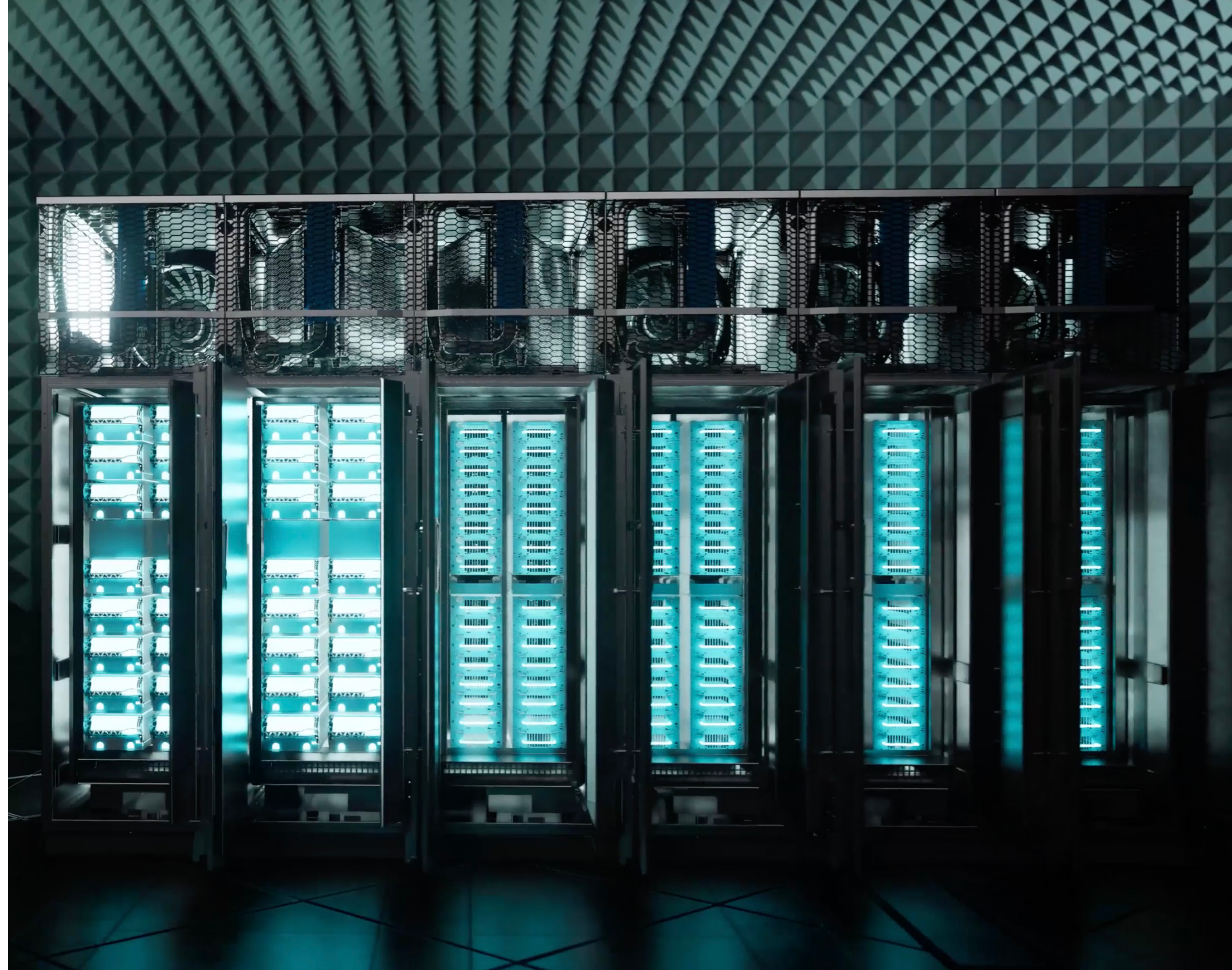
Advanced liquid cooled power electronics

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

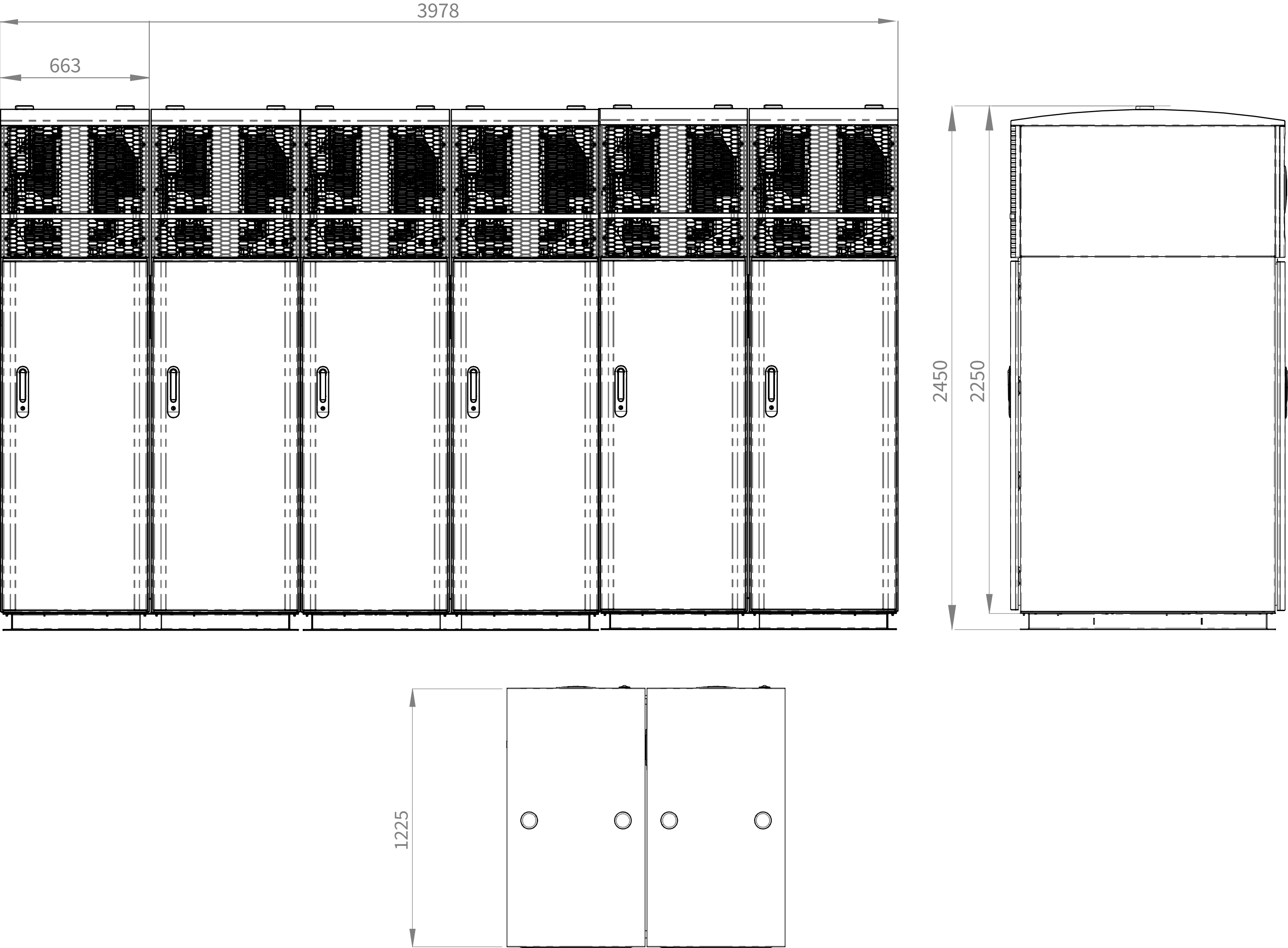
**Noise Emissions:** ≤ 65 dB(A) @ 1 m, full power 25°C (77°F)

**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)<br>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<br><br>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)<br>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](https://tritiumcharging.com)



Designed in Australia



Manufactured in U.S.A