



UNLIMITED M10 & M20

Data Sheet



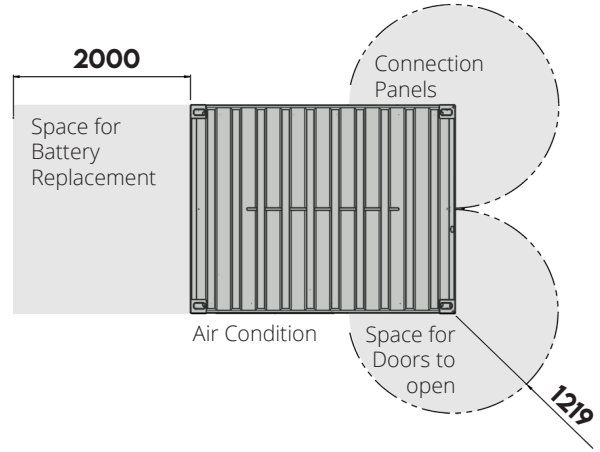
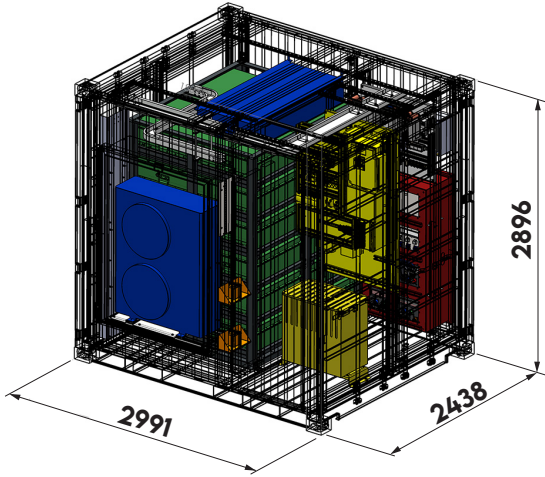
DISCOVER NEW ENERGY

UNLIMITED M10 & M20 - TECHNICAL DATA

| | | XPB-U | U35 | U80 | U150 | |
|-------------------|-------------------------------------|---|---------------------------------|---------------------------------|---------------------------------------|--|
| Operation | Installation | Indoor / Outdoor | | | | |
| | Lifting | with Forklift or Crane (ISO Lifting Points) | | | | |
| | Ambient Temperature | - 20 °C to + 35 °C | | | | |
| | Humidity | max. 90 % not condensing | | | | |
| | Max. Altitude | Altitude: 4000 m (with a derating above 2000 m) | | | | |
| | Max. Snowload | 2 kN/m ² | | | | |
| | IP Rating | System: IP 54 Battery Packs: IP 68 (when fully connected) | | | | |
| AC Connection | Inverter Power | | 35 kVA (35 kW @ cos phi = 1) | 80 kVA (80 kW @ cos phi = 1) | 150 kVA (150 kW @ cos phi = 1) | |
| | Transformer | Galvanic isolating Transformer DZn0 | | | | |
| | Switch Function | fully integrated | | | | |
| | Network Type | TN-S (TN-C) Optional: IT | | | | |
| | Grid Frequency | 50 Hz (45-55 Hz) | | | | |
| | Rated Voltage | 230 V P-N/400 V P-P; 3P+N+PE | | | | |
| | AC Connection | 630 A (AC3) / 800 A (AC1) | | | 800 A (AC3) / 950 A (AC1) | |
| | | Limited by the respective plug versions/connection type Protection at customer's premises | | | | |
| | Diesel Generator | up to 430 kVA (AC3) and 550 kVA (AC1) | | | up to 550 kVA (AC3) and 650 kVA (AC1) | |
| | Automatic Transfer Switch (ATS) | Optional: internal or external ATS for automatic grid/generator connection and/or for bypass purposes | | | | |
| | Potential Earthing / Grounding | According to local requirements by grounding connection point and by input connection | | | | |
| Storage System | Cell Chemistry | Lithium Iron Phosphate (LiFePO ₄ / LFP) | | | | |
| | Cell Operating Temperature | -10 °C to +55 °C discharge +5 °C to +55 °C charge | | | | |
| | Storing Temperature | 0 °C to +35 °C | | | | |
| | Cell Safety | Over-Current, Over-Temperature, Over-Pressure, Over-Voltage Protection, internally fused (irreversible) | | | | |
| | Fire Protection | Pack integrated thermally triggered extinguishing system (N ₂ / CO ₂) | | | | |
| | Storage Capacity (at 100% DoD) | M10: 164,5-282 kWh M20: 376-564 kWh | | | M10: 235-282 kWh M20: 376-564 kWh | |
| | | Battery capacity can be expanded in steps of 23,5 kWh | | | | |
| | Battery Voltage | Nominal 652 V DC, Range: 585 to 744 V DC | | | | |
| | Management | xelectrix Power BMS (Battery Management System) | | | | |
| Heating / Cooling | Heat Pump / Air Conditioning System | | | | | |
| Communication | Internet | Standard: WAN Connection Point / Option: LTE | | | | |
| | Human Interface | Integrated Control Board with Touch Display | | | | |
| | External EMS | Optional Connection: via Modbus/TCP Interface | | | | |
| | Monitoring | Standard: xPMon | | | | |
| | GPS | Optional | | | | |
| Standard | | TOR Erzeuger Typ A:2019-12, OVE R25:2020-03, VDE-AR-N 4105:2018-11, DIN VDE V 0124-100:2020-06, Low Voltage Directive 2014/35/EU, Compatibility (EMC) 2014/30/EU EN 61800-2, EN 61800-3, EN 61800-5-1, EN61800-5-2, UN38.3, IEC 62619, IEC 63056. | | | | |

UNLIMITED M10 - DIMENSIONS AND WEIGHT

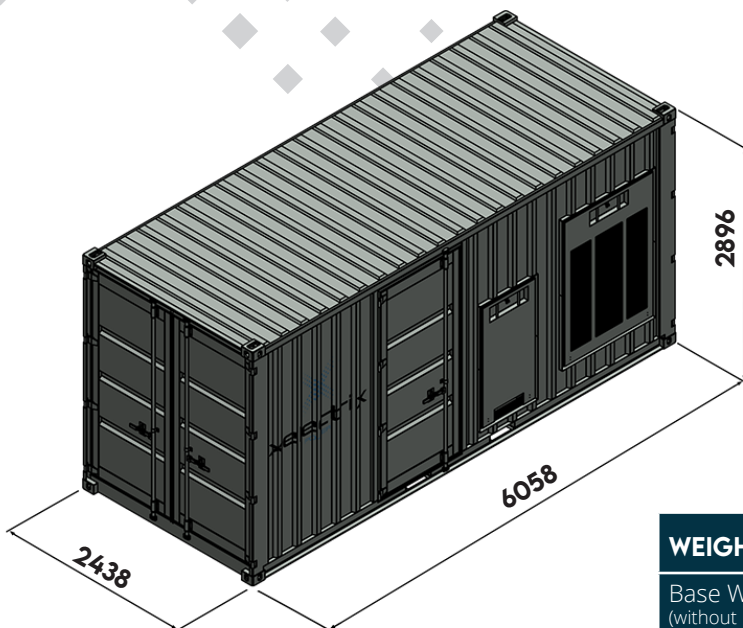
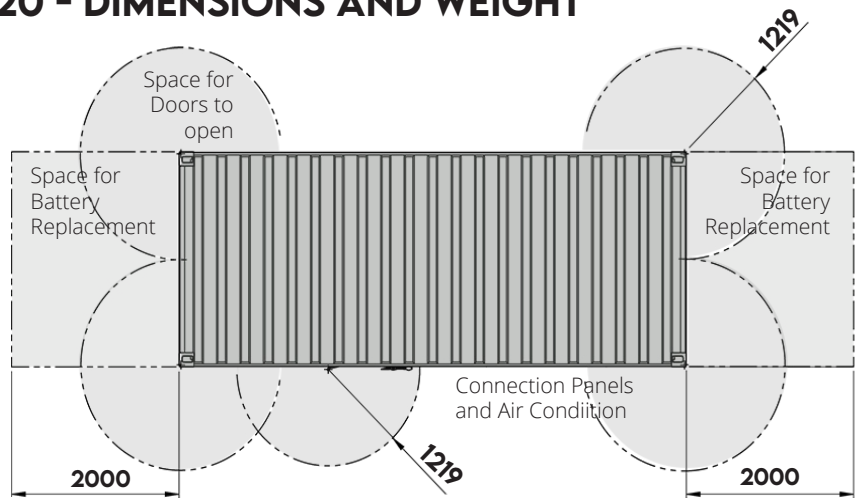
- INTERNAL**
- Air Condition
 - Battery Packs
 - Power Electronics
 - 24 V Batteries
 - Connection Panels



Container designs possible in different variations

| WEIGHT TABLE | U35 | U80 | U150 |
|-------------------------------------|---------|---------|---------|
| Base Weight (without Battery Packs) | 4600 kg | 5200 kg | 5800 kg |
| + per 20 kWh Battery Pack | 300 kg | 300 kg | 300 kg |

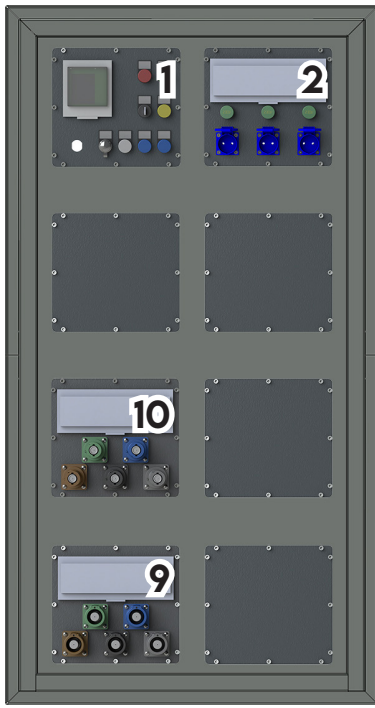
UNLIMITED M20 - DIMENSIONS AND WEIGHT



| WEIGHT TABLE | U35 | U80 | U150 |
|-------------------------------------|---------|---------|---------|
| Base Weight (without Battery Packs) | 8100 kg | 8700 kg | 9300 kg |
| + per 20 kWh Battery Pack | 300 kg | 300 kg | 300 kg |

INPUT / OUTPUT CONNECTION PANELS

Standard | U35, U80, U150



Option 1: Dual Plugs
U35, U80, U150



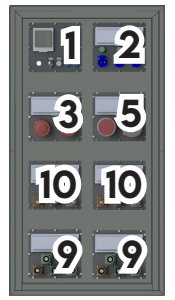
Option 2: internal ATS
U35, U80, U150



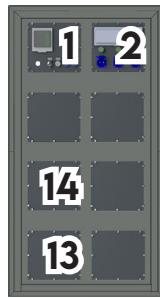
Option 3: All in +
U35, U80, U150



Option 4: All in +++
U150



Option 5: Hard wired
U35, U80, U150



| LEGEND | |
|--------|---|
| 1 | Display & Control |
| 2 | 3 x Schuko Output ¹ |
| 3 | 2 x CEE 16 A 3P Output ¹ |
| 4 | 2 x CEE 32 A 3P Output ¹ |
| 5 | 1 x CEE 32 A 3P + 1 x CEE 63 A 3P Output ¹ |
| 6 | 2 x CEE 63 A 3P Output ¹ |
| 7 | 1 x CEE 125 A 3P Output ² |
| 8 | ATS internal ³ |
| 9 | Powerlock 400 A Input |
| 10 | Powerlock 400 A Output |
| 11 | Powerlock 400 A Input Grid |
| 12 | Powerlock 400 A Input Diesel Generator |
| 13 | Hard-wired Input |
| 14 | Hard-wired Output |

¹ No. 2 - 6 of the Plugs comes with a central RCD and independent circuit breakers.

² No. 7 Plug comes with an independent circuit breaker.

³ Automatic transfer switch for generator application.

Input and Output Powerlocks need to be protected from the customer's side.

PARALLEL PLATFORM TECHNOLOGY

The ability of the power box to be combined with different energy sources and to sum up their combined power outputs.

HEALTH STATUS MONITORING

Ensuring efficient system functions at all times.

BACKUP POWER

Island and emergency power system for high outputs up to 150 kW.

BATTERY EXPANSION

Expandable Storage Capacity to suit your needs.

HIGH AMPS

Highest throughput in the industry with up to 630 A input and 950 A output.

SAFETY

Highest safety standards on cell, module and unit level.

SPEED

Fastest reaction times (< 500 ms) through NAM Technology, suited for Fast Frequency Response application.

GENERATOR HYBRIDIZATION

Optimization of fuel consumption and running time.