



**xelectrix**  
POWER

# UNLIMITED M10 & M20

## Data Sheet

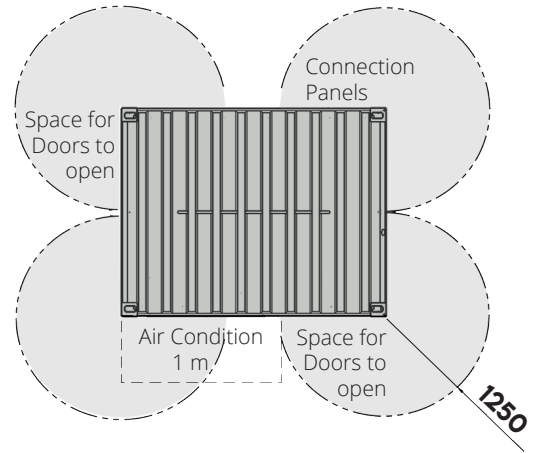
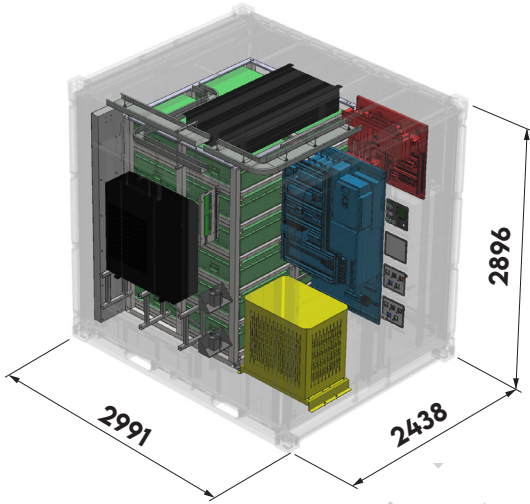


ENERGY. ANYTIME. ANYWHERE.

XPB-U		U35	U80	U150	
Operation	Installation	Container Placement			
	Lifting	with Forklift or Crane (ISO Lifting Points)			
	Ambient Temperature	-20 °C to +35 °C			
	Humidity	max. 90 % not condensing			
	Altitude	max. 4000 m (with a derating above 2000 m)			
	Max. Snowload	2 kN/m <sup>2</sup>			
	IP Rating	System: IP 54 Battery Packs: IP 68 (when fully connected)			
AC Connection	Inverter Power	M10: 35 kVA (35 kW @ cos phi = 1)	M10: 80 kVA (80 kW @ cos phi = 1)	M10/M20: 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	3-phase, frequency stable, up to 550 kVA (AC1)		3-phase, frequency stable, up to 655 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 <sub>4</sub> / LFP)			
	Cell Safety	Over-Current, Over-Temperature, Over-Pressure, Over-Voltage Protection, internally fused (irreversible)			
	Fire Protection	Pack integrated thermally triggered extinguishing system (N <sub>2</sub> / CO <sub>2</sub> )			
	Gross Storage Capacity (at 100% DoD)	M10: 141-188 kWh	M10: 141-282 kWh	M10: 188-282 kWh M20: 470-564 kWh	
		M10: 120-160 kWh	M10: 120-240 kWh	M10: 160-240 kWh M20: 400-480 kWh	
	Net Storage Capacity (at 85% DoD)	Battery capacity can be expanded in steps of 20 kWh (net capacity) / 23,5 kWh (gross capacity)			
	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				
Storing Conditions	Up to 12 months at a temperature of +5 °C to +35 °C with a minimum starting SoC of 90 %				
Communication	Internet	Standard: RJ45 Connector/Port / Option: LTE			
	Human Interface	Integrated Control Board with Touch Display			
	External EMS	Optional: via Modbus/TCP Interface			
	Zero Feed-In	Via communication protocols through external EMS or smart meters			
	Monitoring	xPMon - monitoring and setup platform			
	Signal contacts	2 potential-free relay outputs, 6 GPO outputs, each configurable			
Warranty		10 years performance guarantee of 70 %, see <a href="http://www.xelectrix-power.com/warranty">www.xelectrix-power.com/warranty</a>			
Standard		TOR Erzeuger Typ A:2019-12, OVE R25:2020-03, VDE-AR-N 4105:2018-11, DIN VDE V 0124-100:2020-06, VSE NA/EEA-NE7 - CH 2020 Type A2, EN 50549-1:2019, SS-EN 50549-1:2019, 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

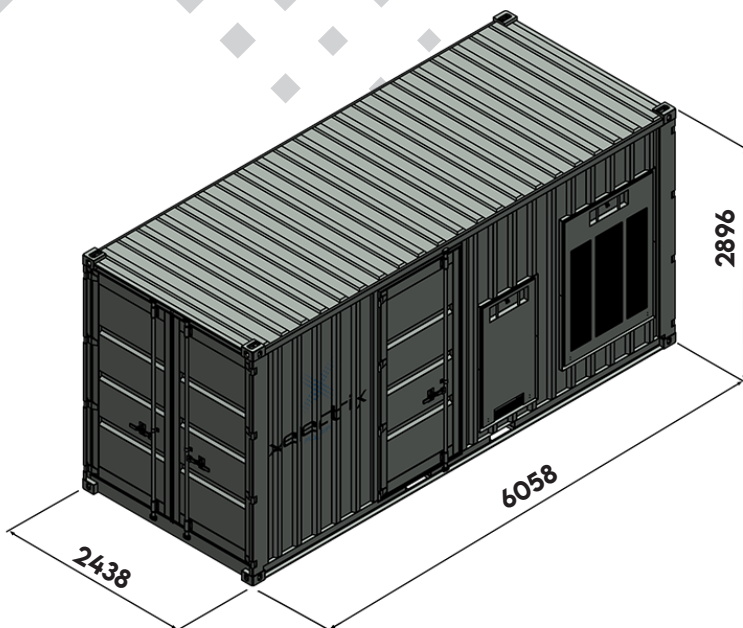
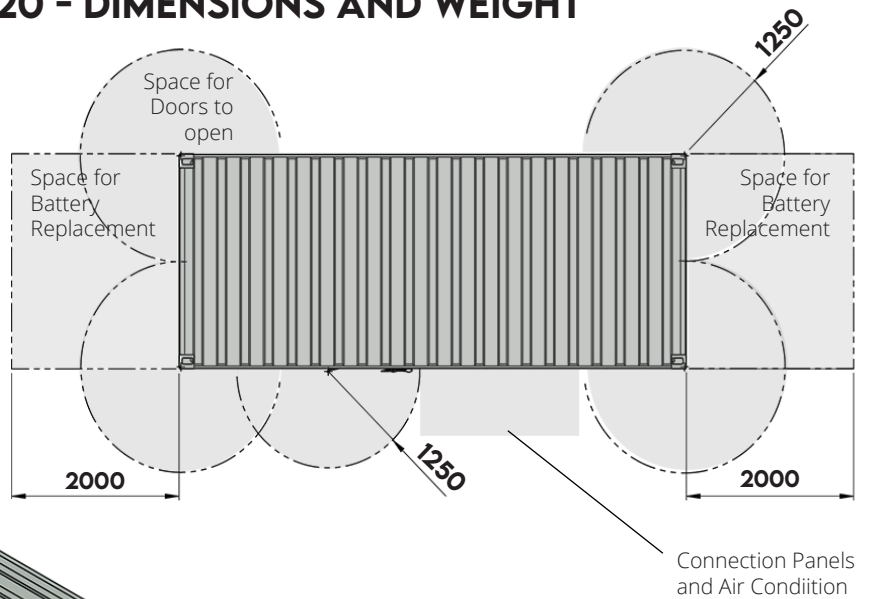
- INTERNAL**
- | Power Electronics
  - | Battery Packs
  - | Air Condition
  - | 24 V Batteries
  - | Contactor Board
  - | Transformer



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	280 kg	280kg	280kg

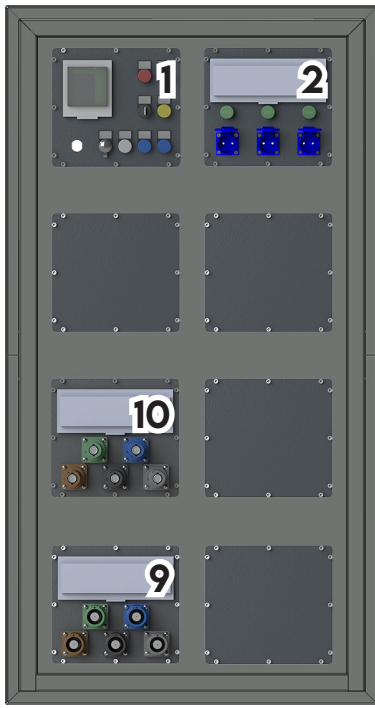
# UNLIMITED M20 - DIMENSIONS AND WEIGHT



WEIGHT TABLE	U150
Base Weight (without Battery Packs)	9300 kg
+ per 20 kWh Battery Pack	280 kg

# INPUT / OUTPUT CONNECTION PANELS

Standard | U35, U80, U150



Option 1: Dual Plugs  
U35, U80, U150



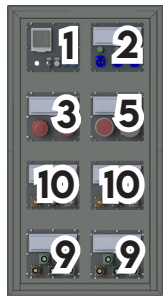
Option 2: internal ATS  
U35, U80, U150



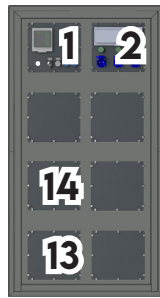
Option 3: All in +  
U35, U80, U150



Option 4: All in +++  
U150



Option 5: Hard wired  
U35, U80, U150



## LEGEND

- 1 | Display & Control
- 2 | 3 x Schuko Output<sup>1</sup>
- 3 | 2 x CEE 16 A 3P Output<sup>1</sup>
- 4 | 2 x CEE 32 A 3P Output<sup>1</sup>
- 5 | 1 x CEE 32 A 3P + 1 x CEE 63 A 3P Output<sup>1</sup>
- 6 | 2 x CEE 63 A 3P Output<sup>1</sup>
- 7 | 1 x CEE 125 A 3P Output<sup>2</sup>
- 8 | ATS internal<sup>3</sup>
- 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

<sup>1</sup> No. 2 - 6 of the Connections comes with a central RCD and independent circuit breakers.

<sup>2</sup> No. 7 Connections comes with an independent circuit breaker.

<sup>3</sup> 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 through put 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 Reserve application.

## GENERATOR HYBRIDIZATION

Optimization of fuel consumption and running time.

Developer and Manufacturer  
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