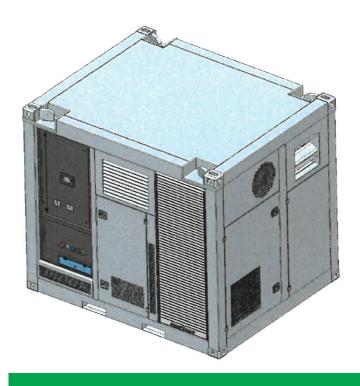
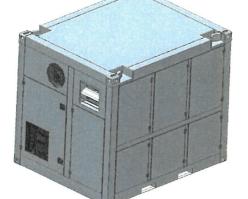


BATTERY ENERGY STORAGE SYSTEM

BESS. The Smart Storage System with Lithium Battery and Integrated Inverter/Charger







STANDARD EQUIPMENT

- **Digital Control Panel**
- **Distribution Panel**
- 4 corner lifting points
- Forklift pockets

POWER SOURCES



SOLAR WIND







APPLICATIONS









CONSTRUCTION DISASTER RELIEF

EVENTS

UPS

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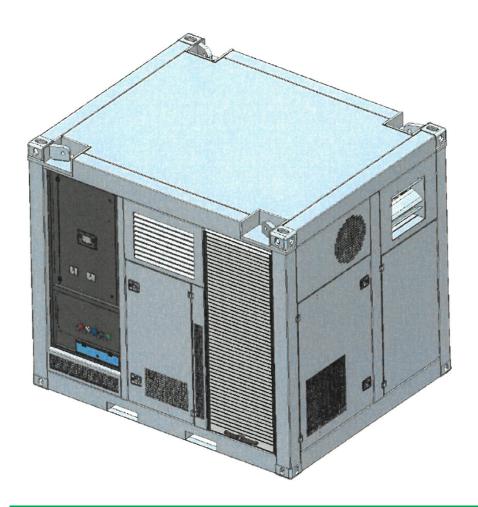
BATTERY ENERGY STORAGE SYSTEM

DATIENTENE	(91 31	ORAGE SYSTEM
GENER	ALTECHN	IICAL DATA
Rated voltage	VAC	150 - 1000
Nominal energy storage	kWh	540
CCS2 power	kW	180
Communication technology		CAN bus
Sound power level	dB(A)	<65
Protection degree		IP44
Battery Quantity	units	6
	BATTER	ty
Battery nominal voltage	VDC	653.4
Model		CUBE
Brand		archimede energia
Nominal Battery Capcity	Ah	135.84
Max. Continuous Charging power	kW	51kW at 50% SOC considering operational limit
Max. Continuous Discharging power	kW	35kW at 10% SOC 109kW at 90% SOC considering operational limits
	INVERT	ER
Quantity	units	1
Continuous power at power factor = 0,8	kVA	200
P	ERFORM	ANCE
Recharging time (@ 80% DoD) @50kW	Time [h]	8,5
Recharging time (@ 80% DoD) @100kW	Time [h]	4,5
Recharging time (@ 80% DoD) @200kW	Time [h]	2,5
Operating temperature	5C	-20 to +45*
	CONTRO	DL
Energy management system		Comap
Battery management system (BMS)		Volvo group
INLET connection		CAMLOCK (400A max 200KW)
OUTLET connection		COMBO2 x 180 kW CCS2 DC charger
Dimensions (L x W x H)	mm	2991x2438x2591
Weight	kg	~7600





10' ISO CONTAINER



HANDLING

- Forklift pockets
- BGG certified corner blocks

FIRE EXTINGUISHER SYSTEM

Emergency motorized shutters and SFE powder aerosol technology

VENTILATION

- Battery ventilation though motorized shutters
- Forced ventilation with fans powered by inverter

INSULATION

Class 1, thermal insulation

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BI-DIRECTIONAL INVERTER



STANDARD FEATURES

- Multilevel IGBT Technology
- Transformer-less topology
- Low distortion sinusoidal current thanks to PWM high frequency IGBT semiconductor technology
- Output Inverter high efficiency power section features low distortion output voltage based on Multilevel IGBT topology
- Forced air system cooling
- Digital control
- Whole power electronics on single removable power module IGBT
- High working frequency
- Mechanical design according to easy maintenance philosophy
- Parallel communication via optical fiber
- Full digital management of the unit controlled by software setting configuration

GENERAL INFORMATION		
Inverter	Multi level IGBT high frequency switching transformer-less	
Cooling system	Forced air	
ELECTRICAL AC SECTION IN GRID CONNECTED MODE		
Nominal output voltage	3Ph + N 380/400/415Vac	
Nominal frequency	50/60Hz	
ELECTRICAL AC SECTION IN STAND ALONE MODE		
Nominal output voltage	3Ph + N 380/400/415Vac	
Nominal output current (3Ph + N @400V)	180 kW	
Nominal frequency	50/60Hz	
Accepted inverter overload	2,6 Pn	
ELECTRICAL DC SECTION		
Nominal voltage	720Vdc	
Max charging current	200A	
Max discharging current	250A	
MECHANICAL		
Protection level	IP20	
Plant wiring	Power Bus BAR	
Wiring lock	Present	
Service access to control electronic	from the front	
ENVIRONMENT		
Operating temperature	0-55°C (with derating over 55 °C)	
Relative humidity	< 95% no moisture	
Max altitude with no deration	Up to 1000m asl (1% deration every 100m up to and including 2000m)	
Storage temperature	-20°C to + 70°C	
OTHER FEATURES		
LCD Interface		
EMC class	IEC-EN62040-2 CLASS A	
Noise level	60dB(A) at 1m	
Air flow rate	1800m³/h	

