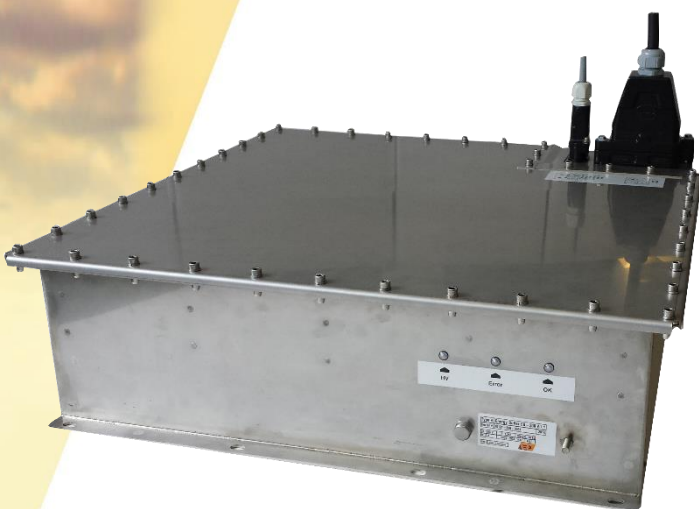




640V Energy buffer

For short power interruptions



- Innovative in energy storage & Power Electronics
- Custom-made solutions
- Complete solution: storage & Power Electronics
- Design and system integration

Features

- High peak power capability
- Long life cycle and life time
- Low internal resistance, high peak current
- High efficiency
- Integrated balancing and monitoring
- Ideal for cold climate environments
- Compact, rugged, fully enclosed IP65 design
- Maintenance free

Applications

- Industrial & UPS back-up
 - Peak power supply
 - Short term bridge power
 - Board net stabilization

Mechanical Data

Length x Width x Height
650 x 665 x 200 mm
Approx. 50 kg

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Electrical Specifications

Symbol	Parameter	Description	Value	Unit
	Capacitance			
C _s	Rated capacitance		1,25	F
	Tolerance capacity		-0 / +20	%
	Voltage			
U _{NOM}	Nominal voltage		640	VDC
U _{MAX}	Max. operating voltage		670	VDC
	Surge voltage		705	VDC
U _{ISO}	Isolation voltage	Tested at 2,8 kV / 50Hz / 10s	2,2	K VDC
	Resistance			
ESR _{DC}	Internal resistance / Initial		550	mΩ
	Environment			
T _A	Ambient temperature during operation		-25 to + 65	°C
T _{STORAGE}	Storage temperature range / caps uncharged		-40 to +70	°C
	Protection class		IP65	
	Power			
P _{PEAK}	Peak power	1,5 seconds each 20 minutes	75	kW
	Energy (module)			
E _{STORED}	Energy	@U _{NOM}	256	kJ
			71	Wh
	Current			
I _{AVG}	Rated continuous current		5	A
I _{PEAK}	Maximum peak current	1 second	200	A
I _{LEAK}	Leakage current cells	@U _{MAX}	10,5	mA
I _{SC}	Short circuit current	@U _{NOM}	≤1.200	A

Certified Tests

Description / Conditions	
IEC 61373	Railway applications – Rolling stock equipment – shock and vibration tests – Class 1B
IP65 test	According to EN 60529
Temperature test	Internal



Mechanical Data

Length x Width x Height: 650 x 665 x 200 mm (excluding connectors)

Weight: Approx. 50 kg

Enclosure: IP65

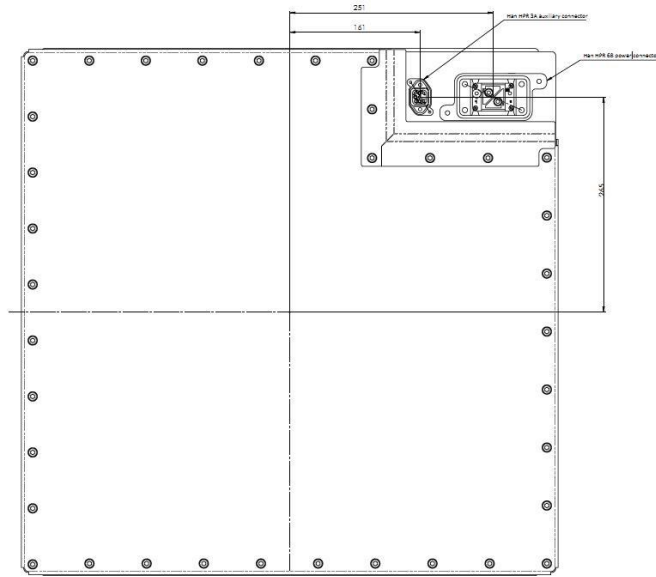


Figure 1: Top view

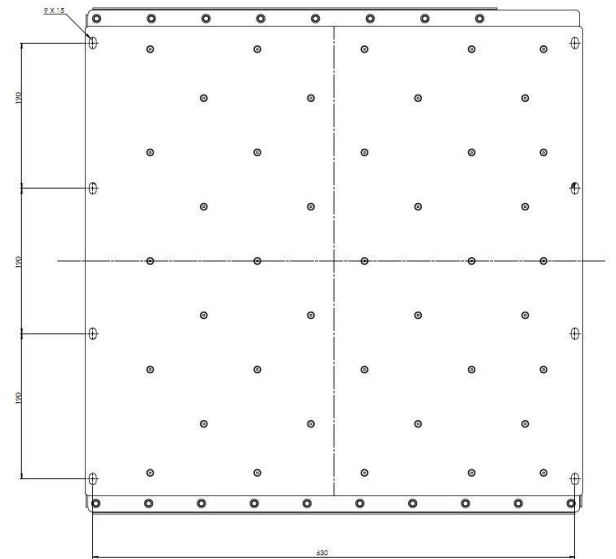


Figure 2: Backside view

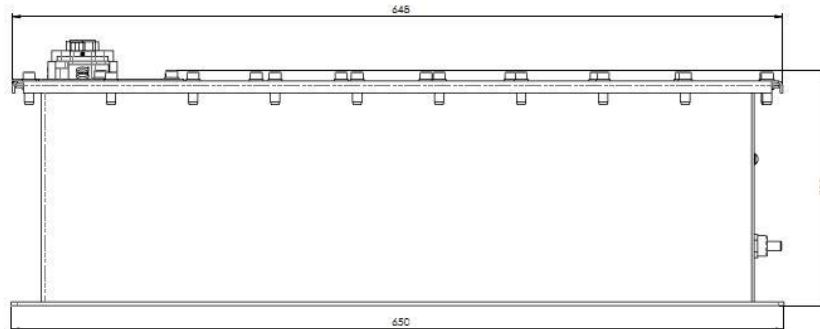


Figure 3: Side view

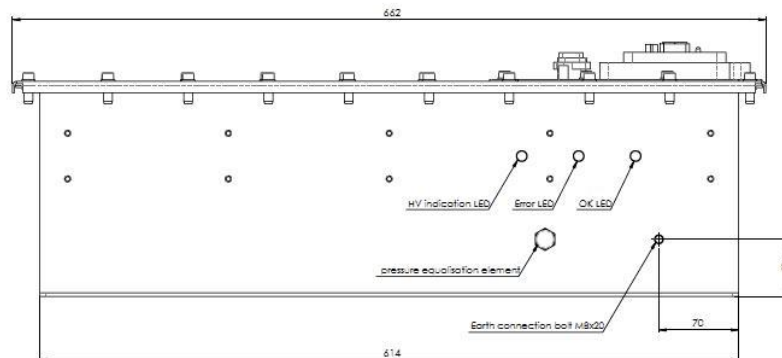


Figure 4: Front view