

# ESS Series RACK CABINET

Energy & Power Optimized Battery Pack

## SYSTEM FEATURES

- ↪ Power and Energy optimized
- ↪ Cycle Life Expectancy > 5000 Cycles
- ↪ Integrated BMS and CAN 2.0A Controlled
- ↪ Integrated Precharge and Isolation Measurement
- ↪ Protection Classes IP20
- ↪ Parallel Topology for Multiple Packs in One Container
- ↪ Development according to ISO26262 upto ASIL C - possible



**BATTERY PACK SPECIFICATIONS**

ELECTRICAL DATA	VALUE	UNIT
Cell Type	NMC	
Energy (Installed / Usable)	105 / 95	kWh
Capacity	150	Ah
Nominal Voltage	701	V
Voltage - min. / max	600 - 810	V
Charge Power Cont.	105	kW
Charge Power Peak @10s	160 (opt. 250)	kW
Discharge Power Cont.	105	kW
Discharge Power Peak @10s	160 (opt. 250)	kW
Cycle Life Expectancy @80DOD	> 5000	Cycles

MECHANICAL DATA		
Operating Temp. during discharging	-10 ~ 45	°C
Protection classes	IP20	
Weight	900 ± 10	kg
Dimensions	800 x 700 x 2120	mm

**BATTERY MODULE**

**Single Module**



**HV BUSBAR**

**Battery System PDU**

2-8 Parallel Rack Cabinet



**DIMENSIONS**

