

Battery Pack NMC-800-084

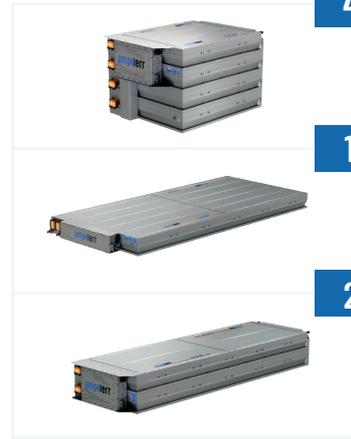
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84,2kWh, 707V



2V32

HOUSING TYPES



4V16

1F32

2H16

SUPPORTED VEHICLES

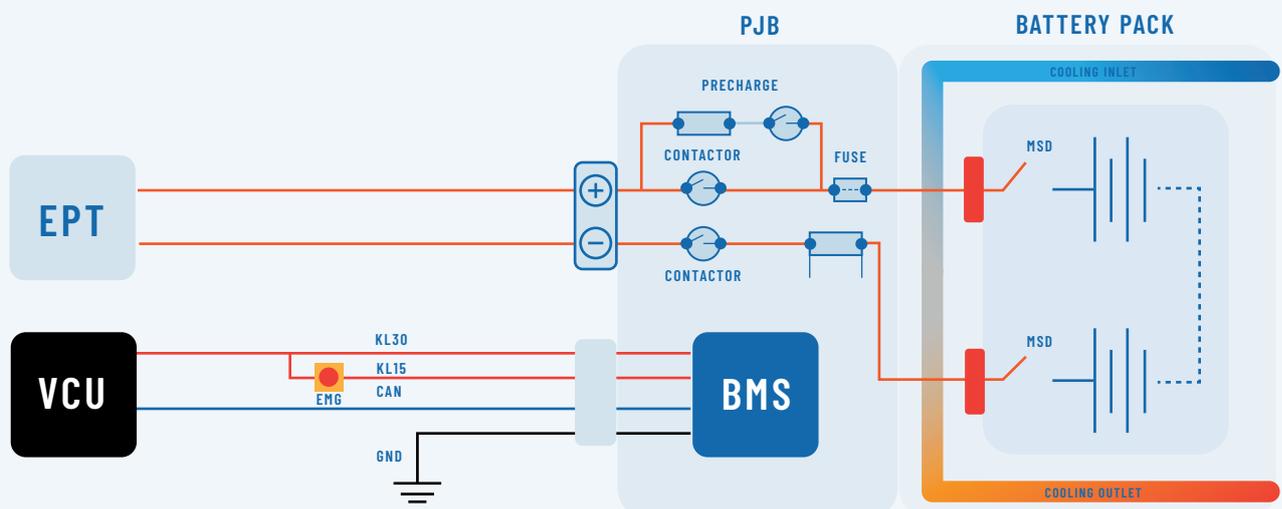


SYSTEM FEATURES

- + Bus, truck, light commercial vehicle, construction machines, marine and railways applications
- + ECE R100.3, ECE R10.6 and UN38.3 certifications
- + Lloyd's Register certification for marine applications
- + IATF 16949:2016-Certified Manufacturing
- + Compatible design according to ISO 26262 up to ASIL C
- + Common PJB (Pack Junction Box) for all products
- + Efficient liquid cooling system
- + CANBus 2.0A-B communication protocol
- + Integrated BMS (Battery Management System)
- + Integrated precharge circuit and isolation measurement



BATTERY PACK LAYOUT



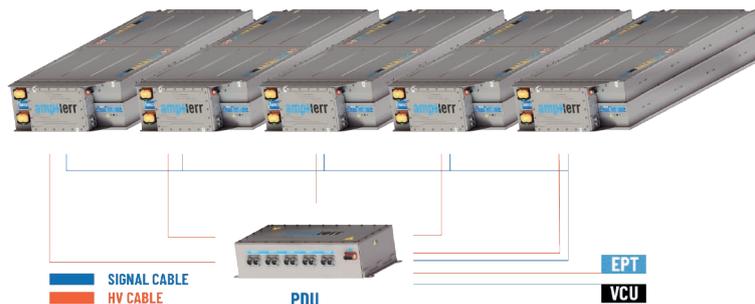
ELECTRICAL SPECIFICATIONS

	VALUE	UNIT
Cell Chemistry	NMC	
Installed Energy @1/3C	84,2	kWh
Energy Density @1/3C	up to 176	Wh/kg
Capacity @1/3C	117	Ah
Nominal Voltage	707	V
OCV Range @ 5-95% SoC	668 - 818	V
Min-Max Voltage Range	538 - 845	V
Cont. Charge Current @ 25°C, SoC dependent, step charge	200	A
Peak Charge Current @ 10s, 25°C, SoC dependent	354	A
Cont. Discharge Current @ 25°C, SoC dependent	228	A
Peak Discharge Current @ 10s, 25°C, SoC dependent	354	A
Cycle Life @ 90%DoD, 0.5C/ 0.5C	up to 3000	cycle
Communication Protocol	CANBus 2.0A-B	
Supply Voltage for Control Equipment	12/24	V

MECHANICAL SPECIFICATIONS

	VALUE	UNIT
Cooling Type	Liquid Cooling	
Flow Rate	10-15	l/min
Pressure Drop @10l/min and 25°C	< 300	mbar
Coolant Operating Pressure	< 2	bar
Operating Temperature @discharge	-30 ~ 55	°C
Operating Temperature @charge	-20 ~ 55	°C
Recommended Operating Temperature	15 ~ 35	°C
Storage Temperature	-20 ~ 45	°C
IP Rating (when the plug connectors are mated)	IP67	
Weight (based on the type of housing)	480 - 560	kg
Dimensions-2V32 (L x W x H)	1710x690x285	mm
Dimensions-4V16 (L x W x H)	960x690x570	mm
Dimensions-1F32 (L x W x H)	2215x1000x145	mm
Dimensions-2H16 (L x W x H)	2075x600x285	mm

MULTIPLE BATTERY SYSTEM



NMC-800-084 / 01.2025

AMPHERR AG

Sperberweg 18
41468 Neuss
sales@ampherr.com

ampHerr

Redefinition of Current!