

# Battery Pack LFP-400-052

ampHerr

52,2kWh, 384V



2V32

## HOUSING TYPES



4V16

1F30

2H16

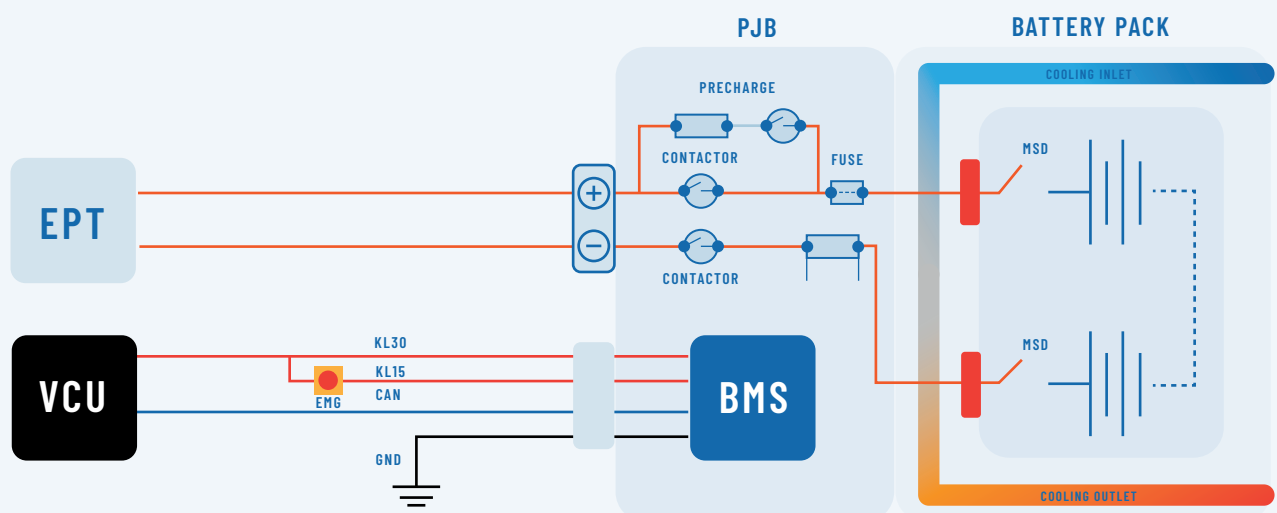
## SUPPORTED VEHICLES



## 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



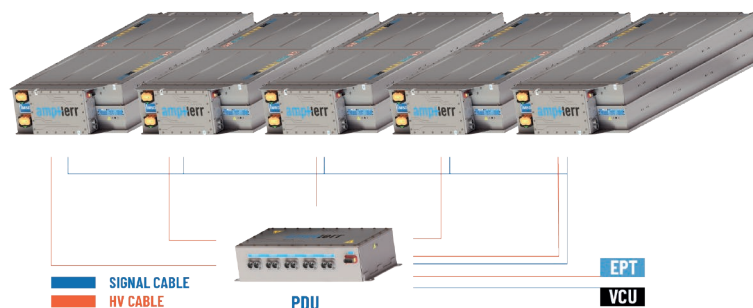
## ELECTRICAL SPECIFICATIONS

	VALUE	UNIT
Cell Chemistry	LFP	
Installed Energy @1/3C	52,2	kWh
Energy Density @1/3C	up to 117	Wh/kg
Capacity @1/3C	135	Ah
Nominal Voltage	384	V
OCV Range @ 5-95% SoC	357 - 425	V
Min-Max Voltage Range	300 - 438	V
Cont. Charge Current @ 25°C, SoC dependent, step charge	135	A
Peak Charge Current @ 10s, 25°C, SoC dependent	270	A
Cont. Discharge Current @ 25°C, SoC dependent	135	A
Peak Discharge Current @ 10s, 25°C, SoC dependent	473	A
Cycle Life @ 90%DoD, 0.5C/ 0.5C	up to 4000	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	0 ~ 55	°C
Recommended Operating Temperature	15 ~ 35	°C
Storage Temperature	-20 ~ 55	°C
IP Rating (when the plug connectors are mated)	IP67	
Weight (based on the type of housing)	445-535	kg
Dimensions-2V32 (L x W x H)	1710x690x285	mm
Dimensions-4V16 (L x W x H)	960x690x570	mm
Dimensions-1F30 (L x W x H)	2050x1000x145	mm
Dimensions-2H16 (L x W x H)	2075x600x285	mm

## MULTIPLE BATTERY SYSTEM



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