79,0kWh, 662V

HOUSING TYPES

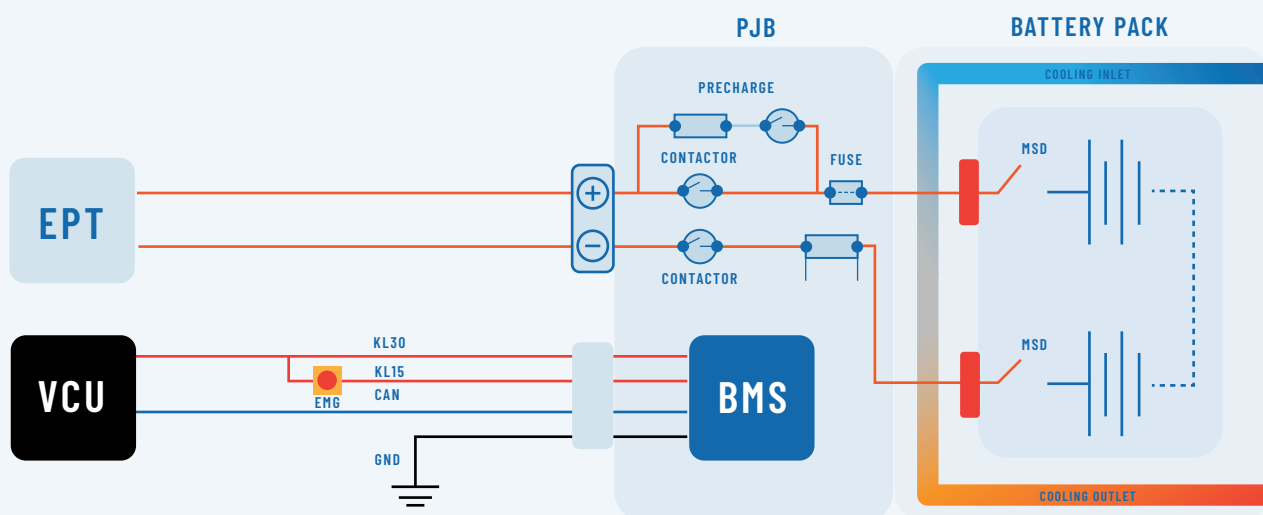**4V16**

1F30

2H16

2V32

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

PJB

BATTERY PACK
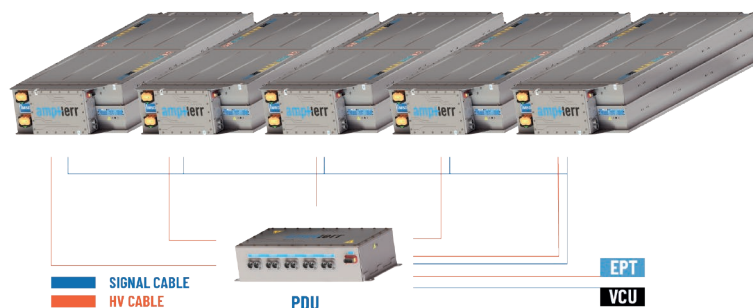
COOLING INLET

PRECHARGE

CONTACTOR

FUSE

MSD

EPT

CONTACTOR

MSD

KL30
KL15
EMG   CAN

VCU

BMS

GND

COOLING OUTLET

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	VALUE	UNIT
Cell Chemistry	NMC	
Installed Energy @1/3C	79,0	kWh
Energy Density @1/3C	up to 178	Wh/kg
Capacity @1/3C	117	Ah
Nominal Voltage	662	V
OCV Range @ 5-95% SoC	626 - 767	V
Min-Max Voltage Range	504 - 792	V
Cont. Charge Current @ 25°C, SoC dependent, step charge	200	A
Peak Charge Current @ 10s, 25°C, SoC dependent	377	A
Cont. Discharge Current @ 25°C, SoC dependent	228	A
Peak Discharge Current @ 10s, 25°C, SoC dependent	377	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

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	-30 ~ 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

SIGNAL CABLE
HV CABLE
PDU
EPT
VCU

ampHerr

Redefinition of Current!