

EGE HIGH VOLTAGE TRUCK PDU

▶ APPLICATION

Small, medium and large trucks, pure electric and hybrid new energy vehicles.



▶ DESCRIPTION

FUNCTIONAL MODULE	MODULE COMPONENT DESCRIPTION
Power Distribution	Busbar component design, fast heat dissipation, highly efficient energy transmission
Power Distribution Protection	Protection with fuses, monitoring systems
Current and Voltage data collection	Collector, auxiliary equipment use more safety
Precharge	Power resistance, anti-surge, pulse
Power Distribution Control	Realized by high voltage relays which make a safe and reliable energy conversion
Communication function	CAN communicate with bus in real-time.
Insulation detection	Leakage of current can be cut off quickly

▶ PRODUCT MANUAL

- Metal shell, flexible production, low cost, good protective performance, light weight and good structural strength
- Forex paste inside the box to improve insulation
- Designed with busbar solution make the product with low temperature rise, good heat dispassion, electric conductive better and installation easily
- Variety of busbars, connector solutions meet customer requests
- This product can be designed and manufactured and manufacture according to customer's requirements, including the Logo.

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▶ INTERFACE SPECIFICATION

INTERFACE (OPTIONAL)	PARAMETER	
Signal Voltage	9V~16V	
Operating Voltage	250~340 VDC	
Operating temperature	-40° C~85° C	
Battery Interface	150A	
Charging interface	Fast charge	500 VDC 125A
	Fast charge	220 VDC 30A
Air conditioning interface	15A	
Defrost Interface	10A	
PTC / heating interface	5A	
Pneumatic pump Interface	10A	
Hydraulic pump port	10A	
Steering Pump Interface	10A	
DC/DC Interface	10A	
Communication Interface	0.5~4A	
MCU	300A	
Auxiliary Interface	10A	
MSD	FU 350A~ 500A	

▶ PERFORMANCE PARAMETERS

Protection class		IP55
Shielding		50db@100MHz
Environmental Testing	Water-proof test	IPX5
	High Temperature Test	85° C 72H
	Low Temperature Test	-40°C 72H
	Salt spray test	48H
	Constant moisture test	5 to 85% R.H.
Electrical Testing	Insulation test	20MΩ 1000V DC/300MΩ 1000V DC
	Voltage withstand test	4000V AC 60 Sec.10mA
	Conductive test	3V DC 0.1A
Mechanical testing	Vibration test	30 {3G} 5-55Hz 1-2mm,55-500Hz 30mm
	Shock test	110 {50G} 4ms IK10
Weight		12KG±10%