

POWER ELECTRONICS ·

AKG's Power electronics cooling system effectively manages the temperature of the electronics (E-motor, inverter, on-board charger, DC-DC converter etc.) in the hybrid/full-electric application using modular heat exchanger design with heavy duty/premium duty fan options, temperature sensors and control module for effective cooling based on vehicle load conditions.

AKG's plug and play solution comes with integrated software for communicating with the vehicle's master controller using CAN J1939. AKG developed firmware automatically learns the system to increase and decrease the cooling demand based on vehicle duty cycle.



1. Modular Design

- Pre-assembled modules, no individual parts need to be integrated into the vehicle
- Flexible to customer requirements

2. Designed for Rugged Duty Applications

- 50C Ambient condition
- IP68 rating



3. Simulation

 Simulations at the component and system level speed up the vehicle developmenton the customer's side



4. Design for Manufacturing

Fits any application with additional engineering support for the integration of power electronics system into the vehicle architecture













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PEC - Light and Heavy Duty Performance Curves (15C ETD)





SPECIFICATIONS	
Ambient Temperature	Up to 50°C
HVDC Input Range	Consult factory for high voltage information
LVDC Input Range	24 VDC
Ingress Protection	IP67
Communication Protocol	CAN J1939
Operating Temperature Range	-20°C -+ 50°C







Ordering Example: LD1-12-S-M-F-P or HD4-24-X-X-F-B

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MADE IN THE USA

