

Averna's Electric Vehicle

Power Components EOL Test Platform



Regardless of your **EV power component** application, trust Averna's **test expertise** to accelerate time to market. With a customizable and fully scalable EV test platform, automate **safety, functional, and leakage** tests with **part labeling** and **quality inspection** for common EV ECU modules. Select only the functionalities required for the application or link multiple systems together for a total solution.

Partially or Fully Automated EV Test Processes

Take advantage of this platform approach and reduce cost, risk and time to market for:

- Inverters;
- DC – DC modules;
- On Board Charges (OBC);
- Battery Management Solutions BMS/TMS;
- Small Motors/Actuators;
- Power Distribution Units (PDU);
- Other Power Electronic Modules.



Fully-optional automated EV test platform.



In-line testing with conveyor belt.

SPECIFICATION SHEET / EV POWER COMPONENT TEST PLATFORM

	Safety & Insulation	Functional	Leakage	AOI/Laser
Test Types	<ul style="list-style-type: none"> Isolation Resistance IR High Voltage HV AC 	<ul style="list-style-type: none"> Calibration Performance Power Noise, vibration, and harshness (NVH) 	<ul style="list-style-type: none"> Cooling Circuit Housing Connectors 	<ul style="list-style-type: none"> 3D Pin Inspection Quality Labeling Lasering
Parameters to Measure	<ul style="list-style-type: none"> Leakage Current (mA) Isolation Resistance (Ω) 	<ul style="list-style-type: none"> Communication, Interface Tests (CAN, LIN, etc.) Power, Power Factor, Efficiency (W, A, V, PF, THD) Sensors Tests (ex. Temperature Sensors) Programming / Flashing / Security Configuration 	<ul style="list-style-type: none"> Pressure Difference or Flow Methods 	<ul style="list-style-type: none"> Optical Tests: Presence, OCR, etc.
Cooling System	NA	If required (Option)	NA	NA
Station Dimensions - Typical (mm/in)	600x x 1000 x 2000 24 x 39 x 79	600x x 1000 x 2000 24 x 39 x 79	600x x 1000 x 2000 24 x 39 x 79	1000x x 1000 x 2000 39 x 39 x 79
DUT Size Envelope - Typical (mm/in)	400 x 400 x 200 16 x 16 x 8			
Handling Time	Approx. 10s	Approx. 10s	Approx. 10s	Approx. 10s
Loading / Unloading / Connection to DUT	Automatic, Inline System	Automatic, Inline System	Automatic, Inline System	Automatic, Inline System
Internal Transport / Conveyor	Customizable, e.g.TS2 Bosch	Customizable, e.g.TS2 Bosch	Customizable, e.g.TS2 Bosch	TS2 Bosch Robot (Option)
Communication Type Between Stations	Customizable, e.g.SMEMA	Customizable, e.g.SMEMA	Customizable, e.g.SMEMA	Customizable, e.g.SMEMA
External Data Interface	MES, OPC UA (TSN), TCP-IP, PLC Connectors			
Return Pallet Conveyor	Optional			



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