

Electric 3W Powertrain Offerings



Electrodrive Powertrain Solutions Pvt. Ltd., or Electra EV, is India's leading electric vehicles powertrain solutions company, focused on accelerating the future of electric mobility in India. As India's first independent, pure-play EV powertrain company, we partner with select global OEMs in specific markets to provide high-value EV solutions with our products and services. We focus on shaping the future of electric mobility by innovating, developing, adapting, and integrating cutting-edge electric powertrain technologies for challenging applications with stringent product safety, regulatory compliances, and other market criteria.



AIS 156, AIS 004, AIS 041 & IS 16893-2&3 Certified

3W EV Powertrains - L5M and L5N

Flexible Solutions for Diverse
Market Segment



Traction Motor
(PMSM)



Battery Packs



DC-DC
Converter

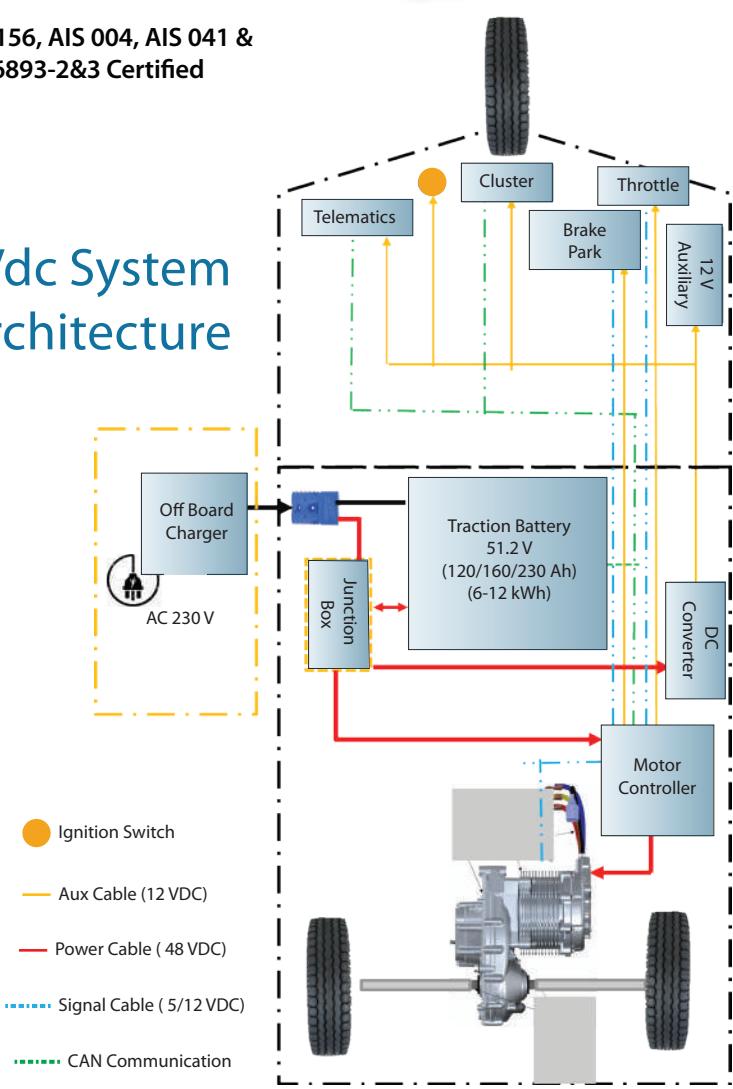


Charger



Charging
Gun, Type 6

48 Vdc System Architecture

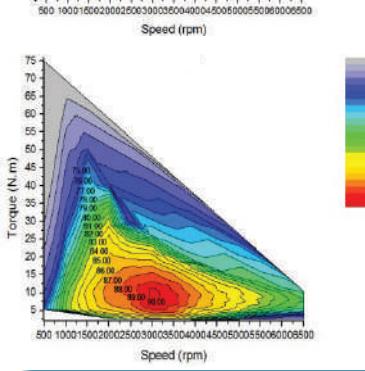
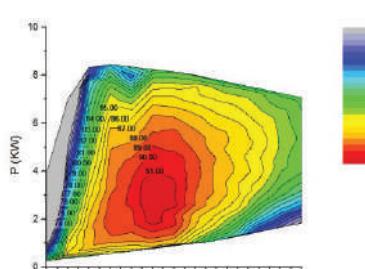


Battery Pack

Pack capacity (kWh)	5.38	11.7	8.89	16.7
Production Readiness	Production Ready Standard Packs		Custom Development	
Cell Ah	105	230	173	163
Cell Make	EVE	CALB	CALB	CALB
Nominal Voltage (Vdc)	51.2			
Power Pack Size (mm)	L	520	700	810
	W	340	450	295
	H	250	275	270
Charging Time in Hours (SoC 20% to 100%)	2.5-3	4-5.5	4-4.5	5-5.5
Cooling Type	Naturally Cooled			
Homologation	AIS156 Certified			
Cell Chemistry	LFP			
Images				

Standard ePowertrain

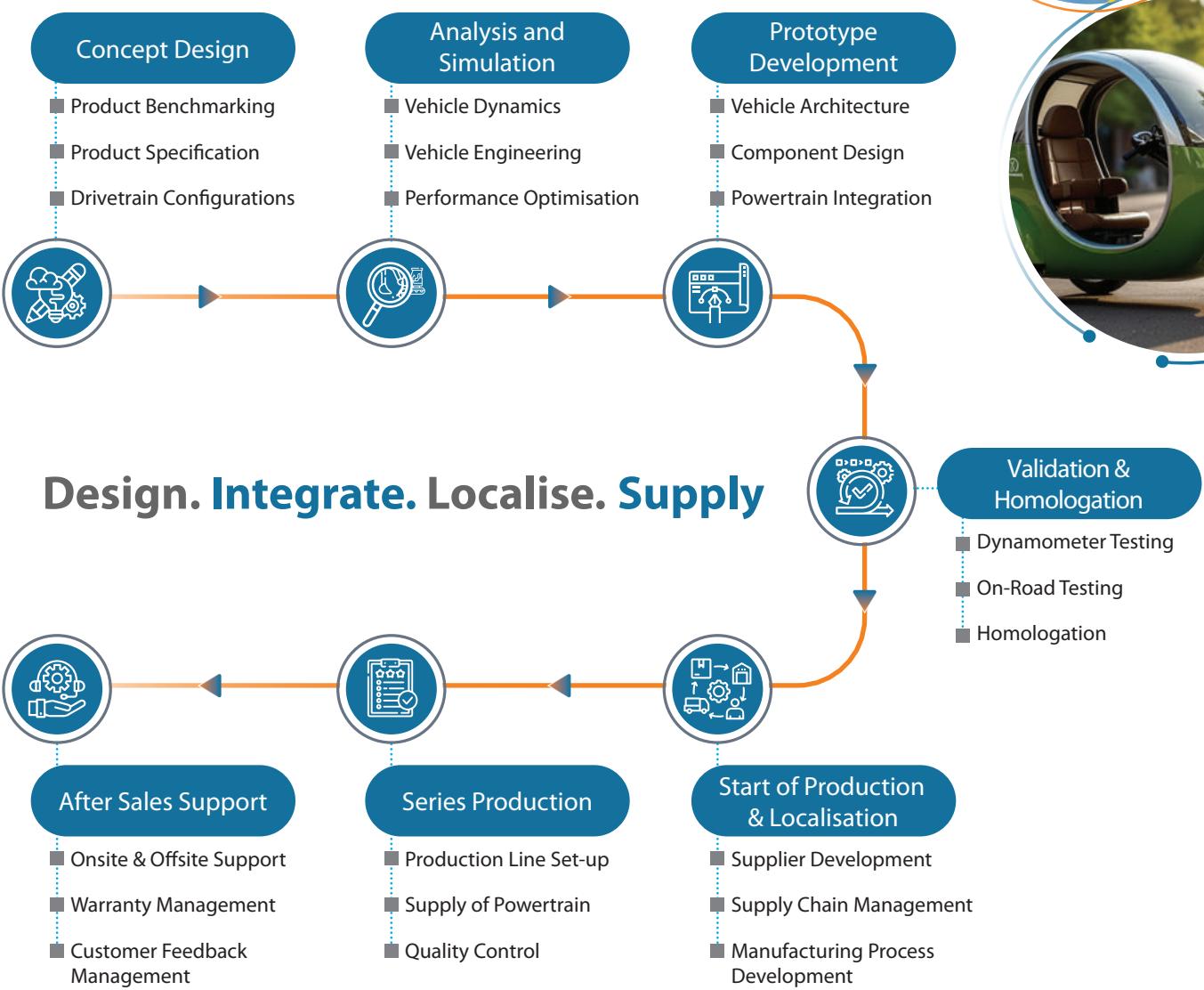
Motor	Unit	ELECTRA -10-65	ELECTRA -10-75	ELECTRA -10-85
Rated Power	kW	5	6	8.5
Peak Power	kW	10	10	15
Rated Speed	Rpm	3000	3000	3000
Peak Speed	Rpm	6000	7500	6500
Rated Torque	Nm	15.9	15.9	27
Peak Torque	Nm	65	75	85
Rated Current	Amp	100	100	170
Peak Current	Amp	300	350	425
Protection Grade		IP 67	IP 67	IP 67
Cooling Mode		Natural Air Cooling		
Gear Box Ratio		10	8.34	8.34
Wheel Max. Speed	Rpm	600	900	780
Wheel Max. Torque	Nm	650	625	680
Weight Motor	Kg	24	30	35
Image				



Full Cycle Support to OEMs & T1 Suppliers



Brings Deep Ecosystem Understanding and Agility in Innovation



Successfully commercialised multiple powertrains across commercial vehicle and off-highway segments.

Testing services adhering to ARAI standards for AIS 048, AIS 004, AIS 037 and AIS 038
100% FAME compliant localised solutions for the Indian market

ELECTRA EV™

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