



46990 Electrical Vehicle Training System- Electric vehicles (EVs) are a promising technology for achieving a sustainable transport sector in the future, due to their very low to zero-carbon emission, low noise, high efficiency and flexibility in grid operation and integration.

Evs are vehicles that are either partially or fully powered on electric power. Electric vehicles have low running costs as they have less moving parts for maintaining and also very environmentally friendly as they use little or no fossil fuels (petrol or diesel).

Features

- Provided with all the sensors and its functionality
- Provided with meters for measurement analysis
- Throttle with 3 mode speed
- Testing -RPM, Torque, Input Power
- PWM Signal on Panel
- On Panel Charging Switch
- Real time and interactive training setup
- Motor Assembly Mechanical Arrangement for Experiments

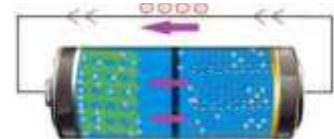
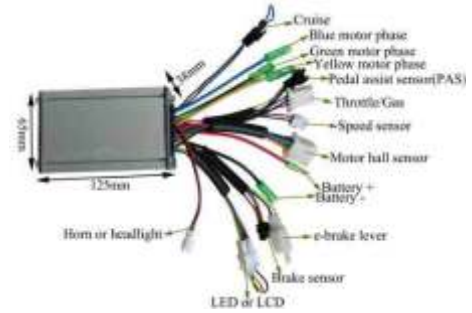
Experiments

- Study the types of motors used in EV.
- Study the different Sensors of EV.
- Study of Motor Driver Controller in EV.
- Study of running, reversing & braking of HUB motor in two wheeler vehicle.
- Study of speed control of HUB motor using PWM method.
- Study of Hall Sensor.
- Study the N-T (Speed -Torque) characteristic of HUB Motor

Note: Specifications are subject to change.

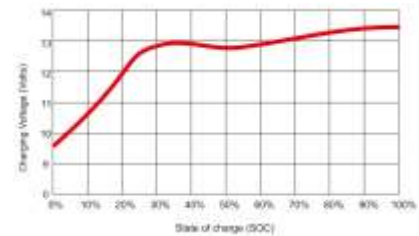
Technical Specifications

Type of Motor	:	Hub motor (12 inch)
Rated Voltage	:	48V
Power	:	1000W
Digital RPM Meter (0-9999 Count)	:	1 nos.
Battery LiFePo4 Cell (3.3V)	:	1 nos.
Battery with inbuilt BMS Protection	:	1nos .
Type of battery	:	Li-ion Phosphate
Capacity	:	12 AH
Voltage	:	48V
Battery Charger	:	1 nos.



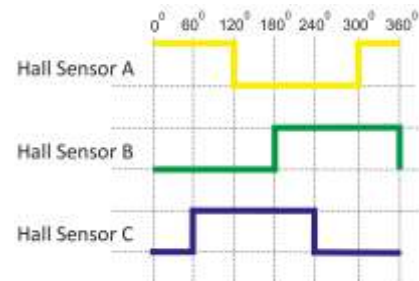
Digital Meters & Indication

AC Voltmeter (1 nos)	:	0-500V AC
AC Ammeter (1 nos)	:	0-30Amp AC
DC Voltmeter (1 nos)	:	0-500V DC
DC Ammeter (1 nos)	:	0-20Amp DC
Motor Controller	:	Inside of Trainer
Motor Speed Controlling	:	PWM
Spring Balance	:	2 nos.
Inter connection	:	4mm Patch cord
Digital Battery Level Indicator	:	1 nos.
Motor Assembly (mechanical)	:	1 nos.



Additional Features

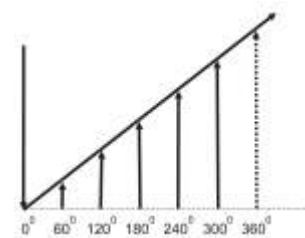
- Key switch for ON/OFF
- Head light & Tail light
- Brake System



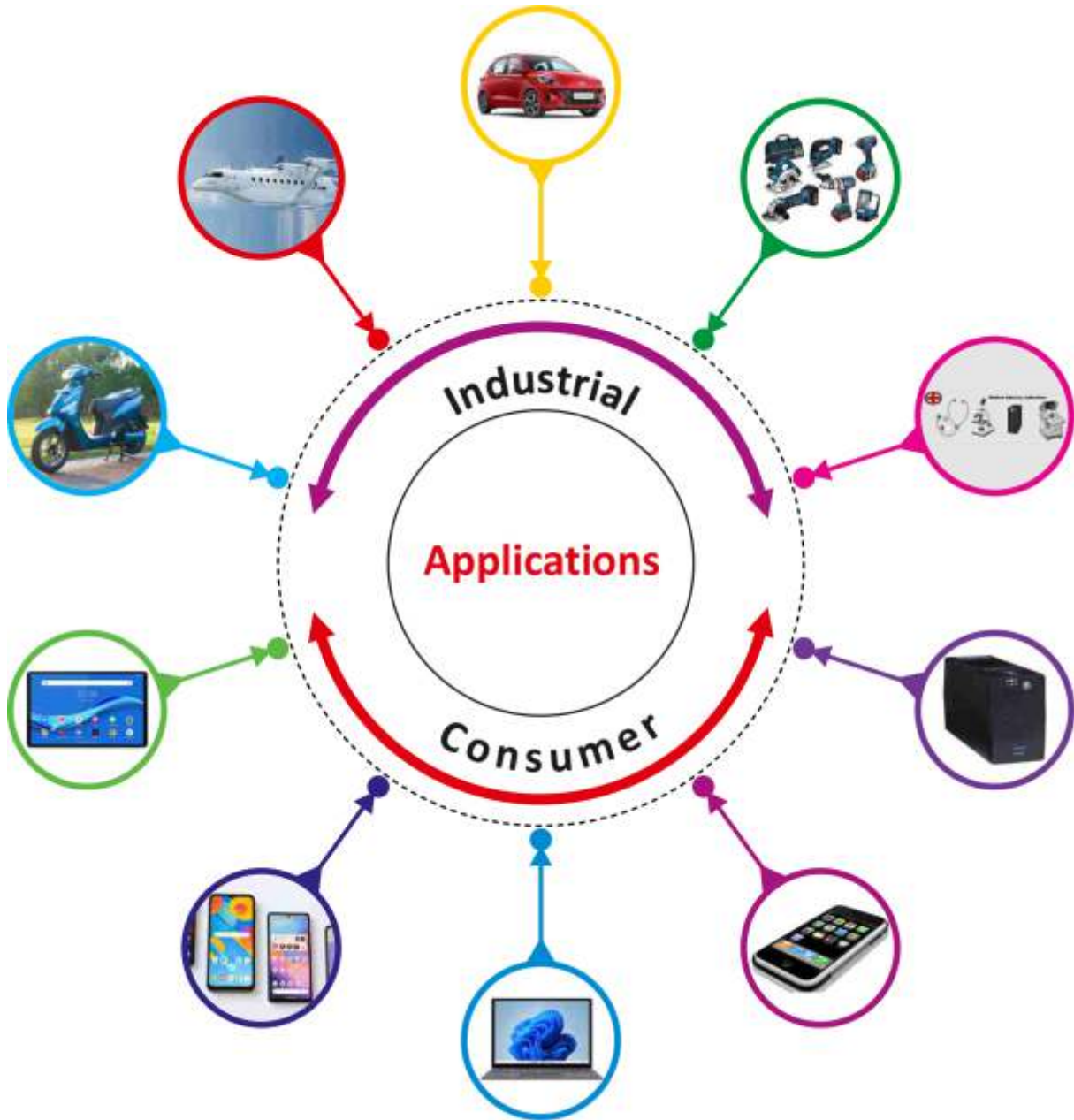
Accessories

- Operating Manual-1nos.
- Patch Cord-15 nos.
- Wall poster with attractive study content - 2Qty.

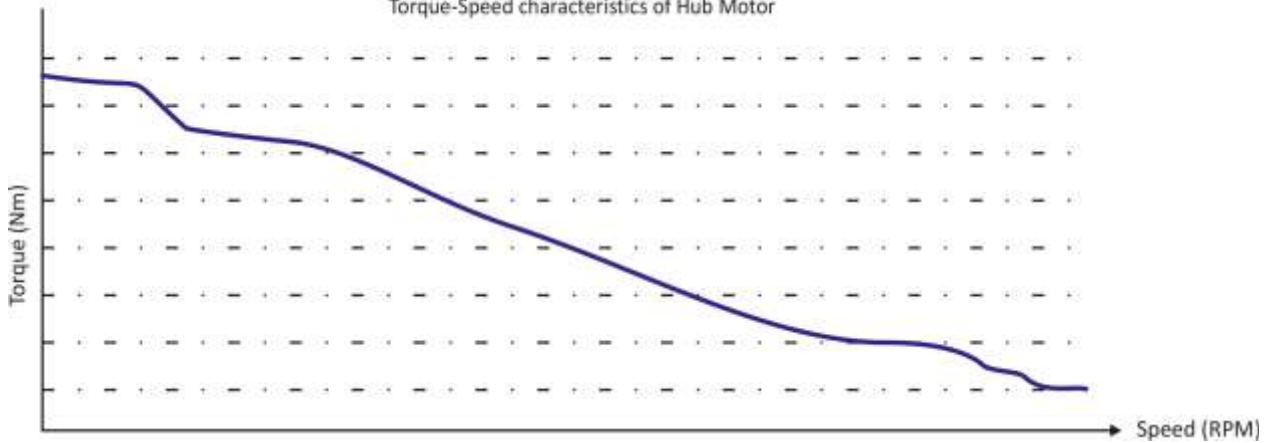
Real Time signal Images of PWM in EV-11



Note: Specifications are subject to change.

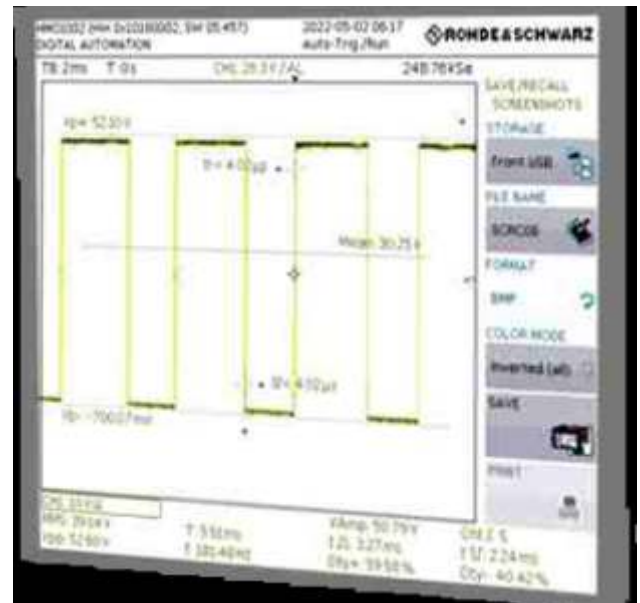
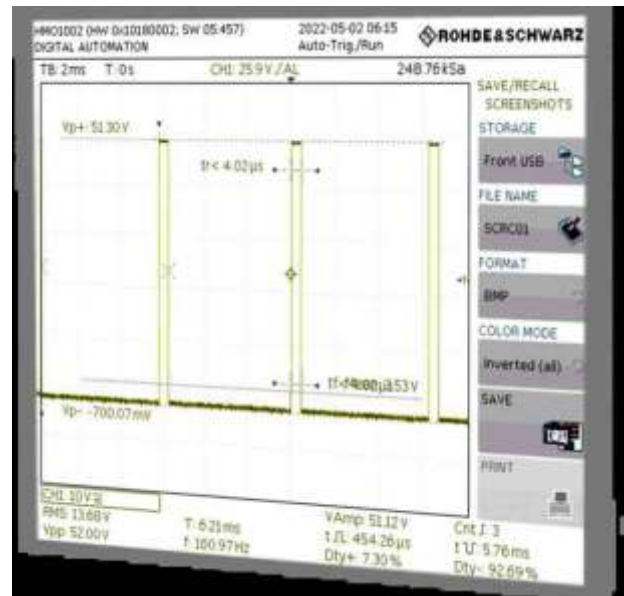
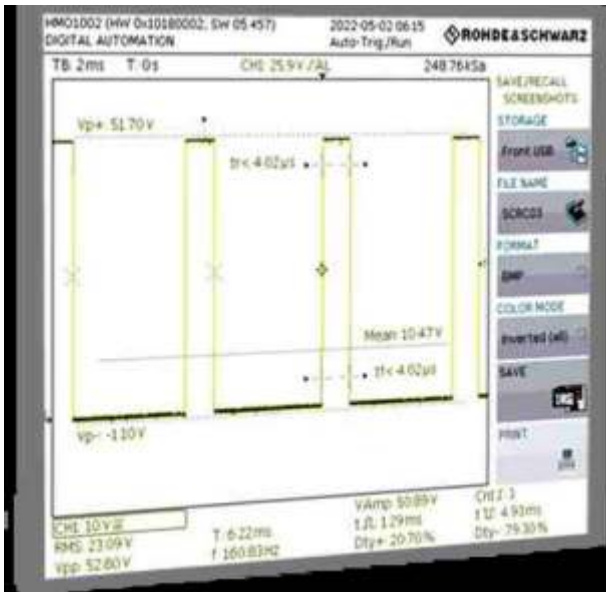


Torque-Speed characteristics of Hub Motor



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Real Time signal Images of PWM



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