



#### Team Astra

Sri Krishna College of Engineering and Technology

#### CFD Report

#### Components

S.No	Name of the Components	Images
1	PV ARRAY	T PV Array
2	MPPT SOLAR CHARGE CONTROLLER	PV Array PV Power ?  Battery PWM ?  MPPT Solar Charge Controller

S.No	Name of the Components	Images
3	BATTERY	Battery
4	UNIVERSAL BRIDGE - INVERTER	Universal Bridge

S.No	Name of the Components	lmages
5	DC to DC CONVERTER	D1 1 1 1 S S S S S S S S S S S S S S S S
6	PERMANENT MAGNET SYNCHRONOUS MACHINE (MOTOR)	Permanent Magnet Synchronous Machine

### Symbols

S.No	Name of the Symbol	Images
1	DIODE	
2	CAPACITOR	

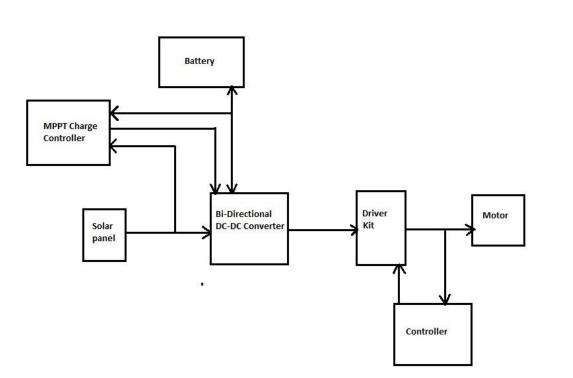
S.No	Name of the Symbol	lmages
3	INDUCTOR	<b>-</b>
4	MOSFET	g As

S.No	Name of the Symbol	Images
5	DISPLAY	2
6	SCOPE	

S.No	Name of the Symbol	Images
7	STEP INPUT	
8	BUS SELECTOR	*

S.No	Name of the Symbol	Images
9	CONSTANT	1000
10	CONNECTING WIRE	

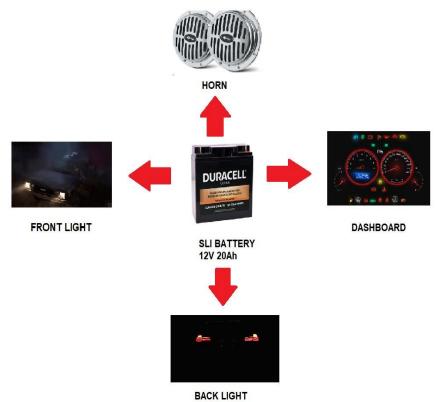
### Block Diagram



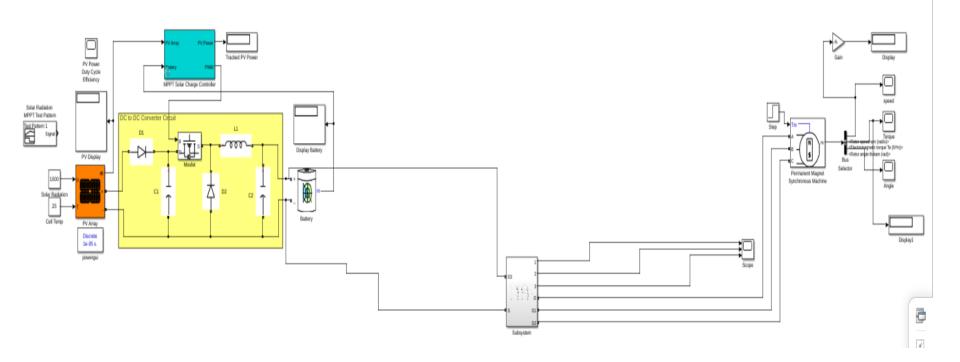
# Energy flow (Tractive)



## Energy Flow (SLI)



#### Simulation



**Three Phase Inverter** 

(Subsystem in Simulation)

