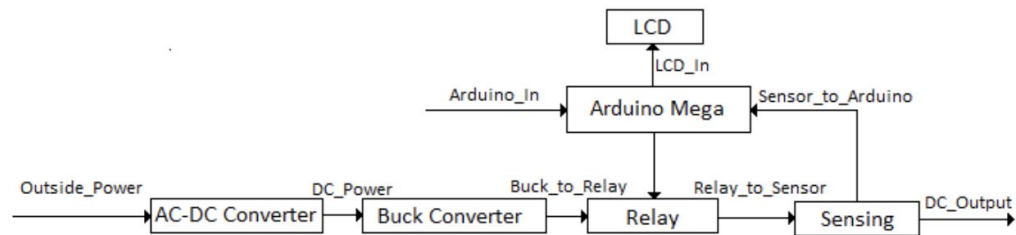


Block Diagram



Interface Properties

Interface	Properties
Outside_Power	<ul style="list-style-type: none"> • 120Vac • NEMA-15M Connector • I_{Peak}: 5A
DC_Power	<ul style="list-style-type: none"> • 16Vdc output • Supply up to 3.5A
LCD_In	<ul style="list-style-type: none"> • 5V • LCD will display voltage and current values • The value must within 5% or 0.1V of real values.
Sensor_to_Arduino	<ul style="list-style-type: none"> • Analog_input
Sensor_to_Relay	<ul style="list-style-type: none"> • Max current = 3.5A • Voltage = 16V
Arduino_In	<ul style="list-style-type: none"> • 7 - 12V • USB serial • Set current limit
Arduino_Out	<ul style="list-style-type: none"> • Digital Output
Output_Control	<ul style="list-style-type: none"> • Digital Output
Relay_Out	<ul style="list-style-type: none"> • Max current = 1.5A • Voltage = 16V
DC_Output	<ul style="list-style-type: none"> • Voltage Ripple < 0.25VP-P • Max Current = 1.5A • Output Voltage = 2-14V • Discharges To < 2V in under 5 Sec