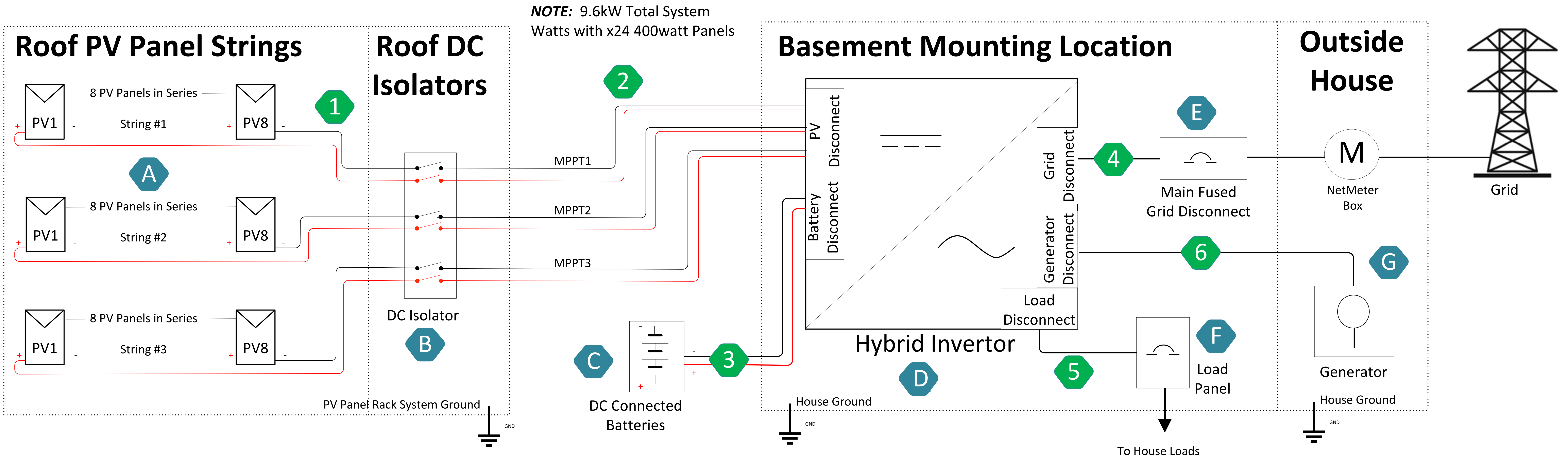


Single Line Drawing - Sample



SYSTEM SPECIFICATIONS

A	PV Panels										
	Make	Model	Quantity	Pmax	Vmp	Imp	Voc	Isc	Temp. Coefficient (Pmax)	Temp. Coefficient (Voc)	Temp. Coefficient (Isc)
	Under Standard Test Conditions (STC)										
	Canadian Solar	CS6R-400MS-HL	24	400 W	30.8 V	12.99 A	38.8 V	13.85 A	-.34 % / C	-0.26 % / C	0.25 % / C
B	Under Normal Module Operating Temperature (NMOT)										
	Canadian Solar	CS6R-400MS-HL	24	299 W	28.8 V	10.39 A	34.6 V	11.17 A	-.34 % / C	-0.26 % / C	0.25 % / C
C	DC Isolator										
	Make	Model	Quantity	Poles	Max Current	Max Voltage					
	IMO	SI16-PEL64R-6	1	6	16	1000 V					
D	Energy Storage Solution (ESS)										
	Make	Model	Quantity	Voltage	Amps	Wattage	Description				
	EG4 Electronics	EG4-[LL](v2)	1	51.2V	600A	30.72kWh	6 x Lithium Server Rack Battery Kit (V2)				
E	Hybrid Inverter										
	Make	Model	Quantity	Nominal AC Voltage	Grid Frequency	PV Max input V / A per MPPT (3 MPPTs)	Battery Max V / Discharge A	Max Generator A	Max Throughput A		
	Sol-Ark	15K-20-N	1	120/240V	50/60	500V / 26A per MPPT	63V / 275A	100A	200A		
F	Main Fused Grid Disconnect										
	Make	Model	Quantity	Description							
	Eaton	DG224NGK	1	200A/2P GD Fusible Safety Switch w/Neutral 240V							
G	Load Panel										
	Make	Model	Quantity	Description							
	Square D Homeline	HOM4080M200PQCVP	1	200 Amp 40-Space 80-Circuit Main Breaker Qwik-Grip Plug On Neutral Load Center							
H	Generator (ESS)										
	Make	Model	Quantity	Voltage	Phases	Hz	kWa/kVA	Amps	Description		
	Kohler	14RCA(LPG)	1	120/240	1	60	14/14	58	14KW Standby Generator with OnCue Plus		

WIRING SCHEDULE

	Description	Size	Type	Material	Distance
1	Solar Photovoltaic Wire (600V)	10AWG	PV	CU	~ 70 Feet
2	MPPT to Invertor	10AWG	THWN	CU	~ 130 feet
3	Battery to Invertor (welding cable)	4/0AWG	Class K	CU	~ 10 feet
4	Grid to Invertor (Stranded)	4/0AWG	THNN	CU	~ 20 feet
5	Invertor to Load (Stranded)	4/0AWG	THNN	CU	~ 20 feet
6	Generator to Invertor	1/0 AWG	XHHW-2	AL	~ 30 Feet

PROJECT DETAILS

Average monthly usage: 990 kWh
Average Daily Usage: 33 kWh.
Lat Long - (39.598850, -?)
GPS Coordinates - ? N
? W
Workshop Roof Azimuth: ? degree South
Workshop Roof Azimuth: 158 degrees South
Best Tilt Angle
March/Apr - Summer ? degrees
Sept/Oct - Winter ? degrees
Combined ? degrees
Roof is 3/12 Pitch 14 degrees