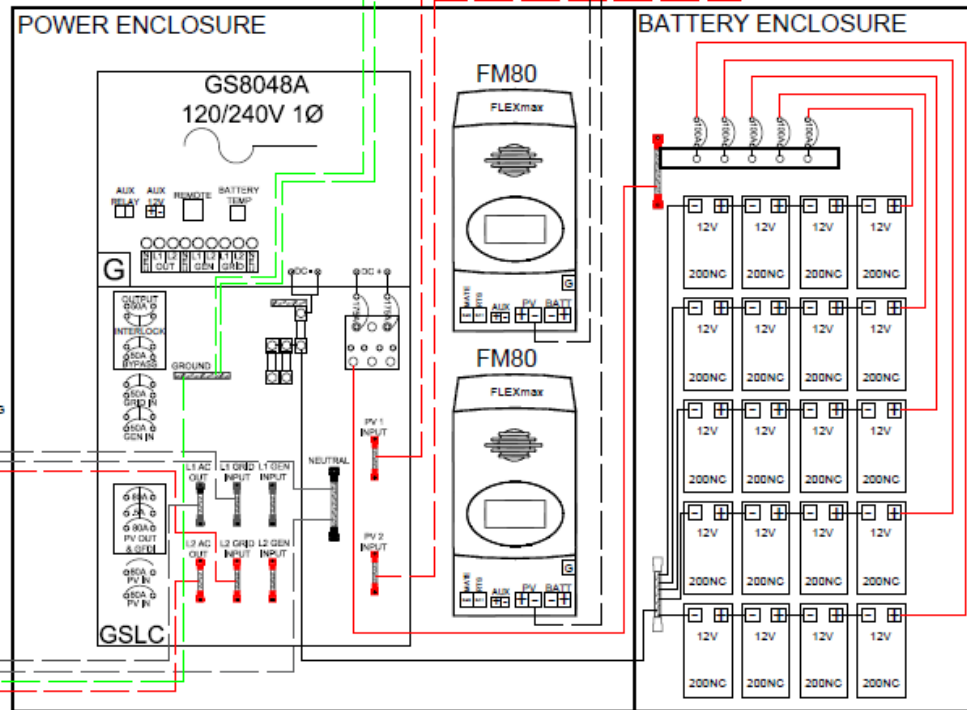
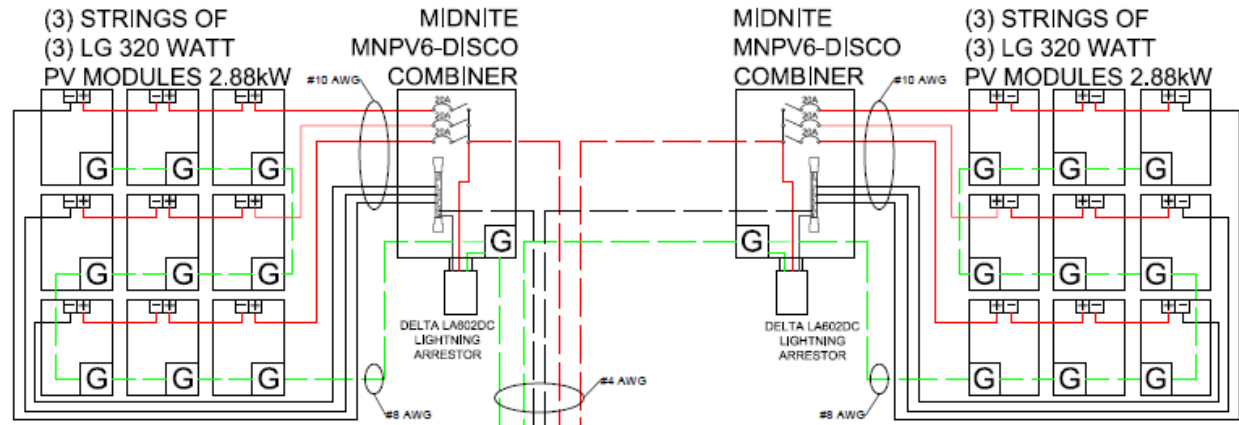


DC WIRE SIZING CHART FOR PV HOMERUNS (1 POSITIVE + 1 NEGATIVE + 1 GROUND CONDUCTOR)			
AWG POSITIVE & NEGATIVE	MAX ONE WAY RUN	CONDUIT	AWG GND
4	54ft	1"	4
3	70ft	1"	3
2	88ft	1.5"	2
1	110ft	1.5"	1
1/0	138ft	1.5"	1/0

TABLE 1: PV HOME RUN CONDUCTORS RATED THWN-2 OR BETTER SIZED FOR <1% VOLTAGE DROP AT 75°C WITH NOT MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT

LG320N1C-G4 320 PV MODULE	STRING (3 MODULES IN SERIES)	SUB-ARRAY (3 STRING(S))
Pstc= 320W Voc= 40.9V Vmp= 33.6V Isc= 10.05A Imp= 9.53A	Pstc= 960W Voc= 122.7V Vmp= 100.8V Isc= 10.05A Imp= 9.53A	Pstc= 2.880kW Voc= 122.7V Vmp= 100.8V Isc= 30.15A Imp= 28.59A

TABLE 2: PV ARRAY STC SPECIFICATIONS



**NOTES:**  
 ALL WORK SHALL COMPLY WITH THE ELECTRIC CODE USED BY THE AUTHORITY HAVING JURISDICTION.  
 CONDUCTORS SHALL BE COPPER WITH THHW/THWN-2 INSULATION OR AS NOTED ON THE DRAWING. CONDUCTOR SIZES SHALL BE BASED ON LOCAL CODE REQUIREMENTS.  
 CONDUCTORS SHOULD BE #6 AWG UNLESS OTHERWISE NOTED. SUGGESTED CONDUCTOR SIZES ARE BASED ON CIRCUIT OVER CURRENT PROTECTION DEVICE. LARGER SIZES MAY BE NECESSARY TO MINIMIZE VOLTAGE DROP.  
 PRIMARY FACTORY WIRING OMITTED FOR CLARITY. REFERENCE DC PLANT WIRING DIAGRAM FOR DETAILS ON FACTORY WIRING INCLUDING CONDUCTOR SIZES, BATTERY TEMP SENSOR LOCATION, NEUTRAL TO GROUND BOND, AND NEGATIVE TO GROUND BOND.  
 CONDUCTORS FROM PV COMBINER TO POWER SYSTEM SHALL BE SIZED ACCORDING TO TABLE 1.

CONDUCTOR LEGEND:	
—	ALPHA PROVIDED
- - -	CUSTOMER PROVIDED
---	L1
---	L2
---	NEUTRAL
---	GROUND
---	DC +
---	DC -

FROM 120/240V GENERATOR RECEPTACLE

TO 120/240V AC LOAD PANEL