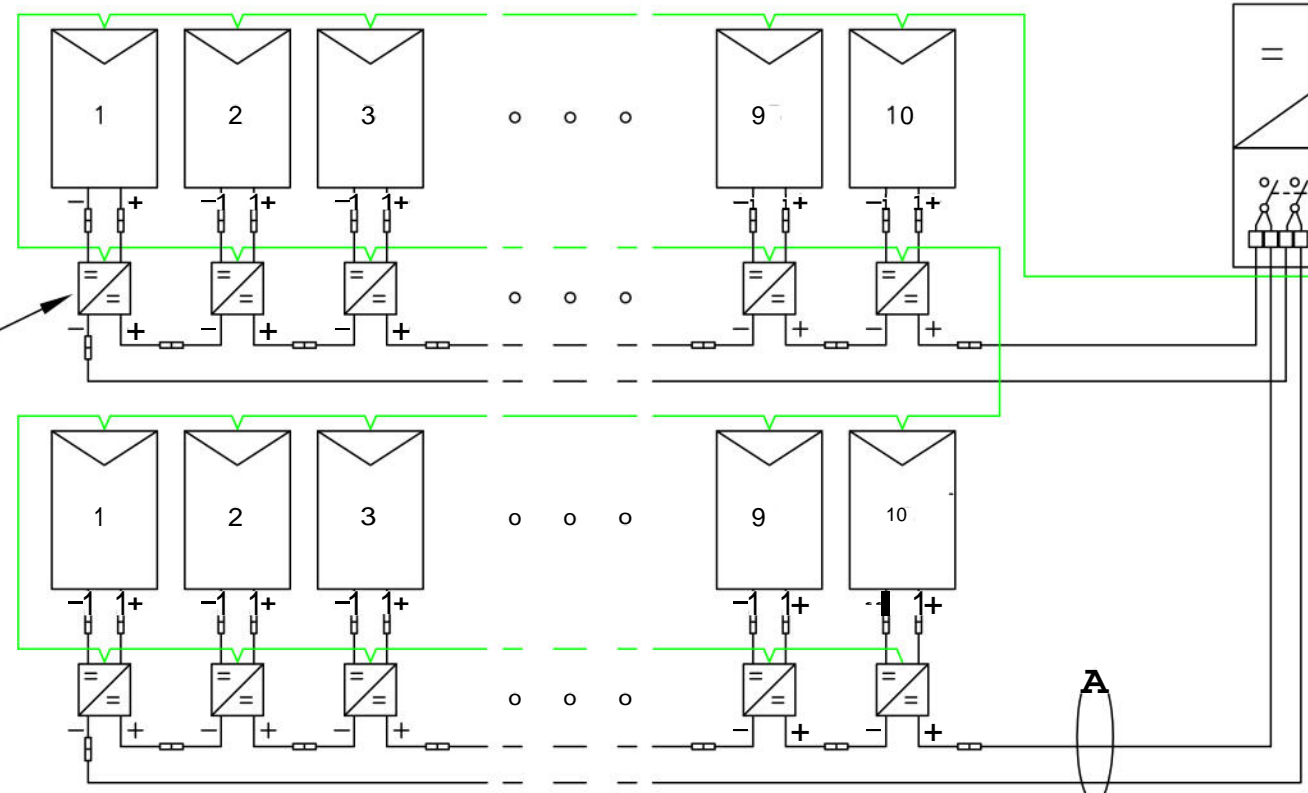


PV Modules = 300 Watts STC
 20 Modules per Inverter = 6000 watts STC
 2 strings of 10 PV Modules

SolarEdge Power Optimizer
 P300
 Rated DC Input Power - 300 watts
 Maximum Input Voltage - 48 Vdc
 MPPT Range - 8 to 48 Vdc
 Maximum Input Current - 12.5 Adc
 Maximum Output Current - 15 Adc
 String Limitations - 8 to 25 Optimizers,
 5250 watts STC per string maximum



SolarEdge SE5000A-US-U Inverter
 97.5% CEC Efficiency @ 240 Vac
 5000 Wac continuous
 Maximum Output Current 21 Arms
 Maximum Input Current 15.5 Adc
 Ground fault protection provided
 per NEC article 690.35

SolarEdge AC/DC Safety Switch
 440 Vac, 50 amps continuous
 600 Vdc, 36.5 amps continuous
 Opens all ungrounded conductors
 per NEC article 690.35

Minimum 10 AWG Cu Wire
 (rated 75 deg C)
 L1, L2, and neutral
 10 AWG Ground wire
 Keep under 1.5% voltage drop

PVWire in Free Air or
 THHN-2 / THWN-2 in conduit
 Minimum 10 AWG Cu wire each
 (rated 90 deg C)
 Positive, Negative
 Bare Copper EGC or insulated EGC in conduit
 Keep under 2% voltage drop

PV Modules - Silfab SLA-M-300 300 Watts
 Open Circuit Voltage = 40.53 Vdc
 Maximum Power Voltage = 32.9 Vdc
 Short Circuit Current = 9.76 Adc
 Maximum Power Current = 9.26 Adc

System Labels
 Maximum DC Voltage = 500 Vdc
 Nominal Operating Voltage = 350 Vdc
 Maximum DC Current = 15.0 Adc per string
 Nominal Operating Current = 23.5 Adc

APPROVALS	DATE	solaredge	3347 Gateway Blvd. Fremont, CA 94538 530-273-3096
J. LAUGHY	2/14/14		
		WIRING DIAGRAM	
		9.48 kW STC	
		7.6 kW AC	
		SHEET	
		D 1 of 1	01