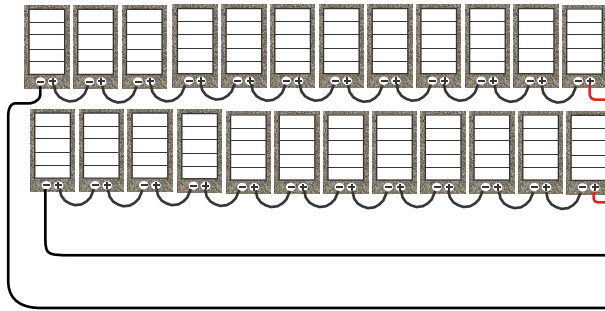


Kyocera KD210 24 Modules
2 strings of 12 in series



3/4" EMT Conduit with two #8 AWG, THWN conductors, a #8 AWG, THWN equipment grounding conductor and a #8 AWG, THWN DC circuit grounding conductor (for all conduit from Inverter to Main Service Panel)

3/4" EMT Conduit with two #12 AWG, THWN conductors and a #12 AWG, THWN equipment grounding conductor (for all conduit from rooftop combiner to PV Power Source Disconnect)

8 GA THHN

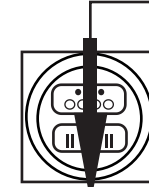
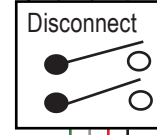
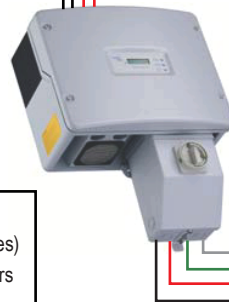
12 GA THHN

8 GA THHN

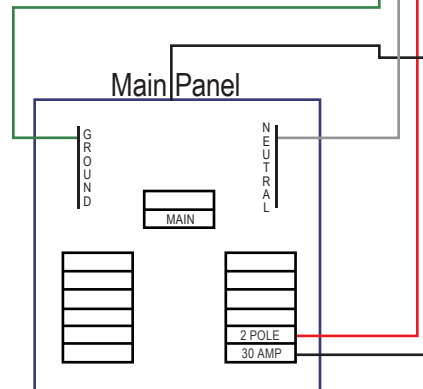
Usage Meter

Company owned service

SB6000US
DC/AC Inverter
(notes 4, 5, 6)



Outdoor
Indoor



Operating Voltage	_____
Operating Current	_____
Maximum System Voltage	_____
Short Circuit Current	_____

- Notes:
1. PV Array contains two parallel strings of 12, 210 Watt Modules in series (24-modules)
 2. PV Array wiring to combiner is #10 AWG THHN with factory-installed MC connectors to interface with modules
 3. PV Power Source Disconnect
 4. Ground-Fault Protection provided in DC/AC Inverter
 5. DC/AC Inverter is SB6000US model rated at 6 kW AC output and is rated to provide 29 amps at 240 Volts at 40°C
 6. Inverter is Listed to UL-1741 "Utility-Interactive"
 7. Utility Switch is visible open, lockable in open position, 240-Vac, 30-amp switch
 8. 200 Amp Main Service Panel with 40 amp Two-Pole Circuit Breaker for Interactive Point of Connection (up to 40 amp allowed for 200 amp busbar—NEC 690.64(B)(2) exception)
 9. Equipment grounding conductors on AC- and DC-side sized according to NEC 250.122
 10. Negative pole of PV array referenced to ground at the Inverter
 11. All grounds connected to main service ground in Main Service Panel
 12. General Notes - this design is not intended to be a complete design and is only for reference. All installations should meet national and local codes. Contact local licensed professionals to ensure installation meets all applicable codes.

Revision #:	Scale:	Solar System Plan:	Solar System Design by: Leon Bontrager
Date: 5/3/10	None	5 KW Kyocera PV System	Home Energy LLC