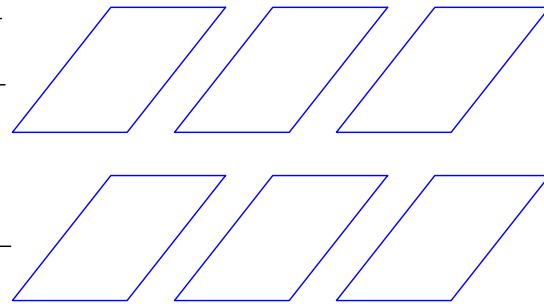
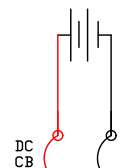


SOLAR PANEL/
PV MODULE



PV SPECS:
 $P_{max} = 500W$
 $V_{oc} = 51.7V$
 $I_{sc} = 11.69A$

BATTERY

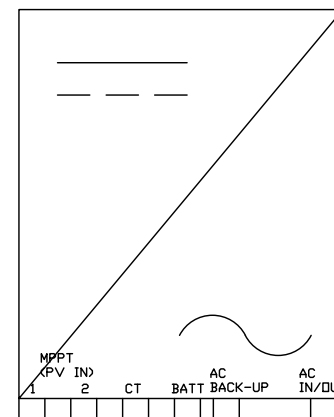


BATT CB:
 $I_{dc} = \text{Max. Charge Current} \times 1.25$
 $I_{dc} = 100A \times 1.25$
 $I_{dc} = 125A$

USE: 1 - 150AT 2P DC CB
2 sets of 2 - 8.0 mm sq DC Wires

HYBRID ON-GRID SYSTEM (Single Line Diagram)

DC - AC
INVERTER



HYBRID ON GRID INV. SPECS:
 $P_{max} = 6000W$
Max. Charge Current = 100A
System Voltage = 48V
 $V_{ac} = 230V$

AC BACKUP CB:
 $I_{ac} = (P_{max} \text{ of Inverter} / V_{ac}) \times 1.25$
 $I_{ac} = (6000W / 230V) \times 1.25$
 $I_{ac} = 32.61A$

USE: 1 - 40AT 2P DC CB
2 - 5.5 mm sq THHN Wires

AC IN/OUT CB:
 $I_{ac} = (P_{max} \text{ of Inverter} / V_{ac}) \times 1.25$
 $I_{ac} = (6000W / 230V) \times 1.25$
 $I_{ac} = 32.61A$

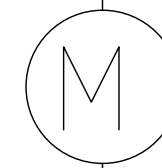
USE: 1 - 40AT 2P DC CB
2 - 5.5 mm sq THHN Wires

PV CB:
 $I_{dc} = I_{sc} \times \text{no. of string of PV} \times 1.25$
 $I_{dc} = 11.69A \times 1 \times 1.25$
 $I_{dc} = 14.61A$

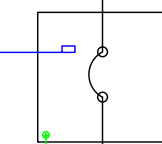
USE: 1 - 20AT 2P DC CB
2 - 4.0 mm sq DC Wires



SERVICE
ENTRANCE



UNI-DIRECTIONAL
METER



NEMA 3R
ENCLOSURE

SWITCH ON:
1. BATT CB2, PV
CB
3. Inverter Switch
4. AC IN/OUT CB
5. AC BACKUP CB

SWITCH OFF:
1. AC BACKUP
CB2, AC IN/OUT
CB
3. Inverter Switch
4. PV CB
5. BATT CB

