
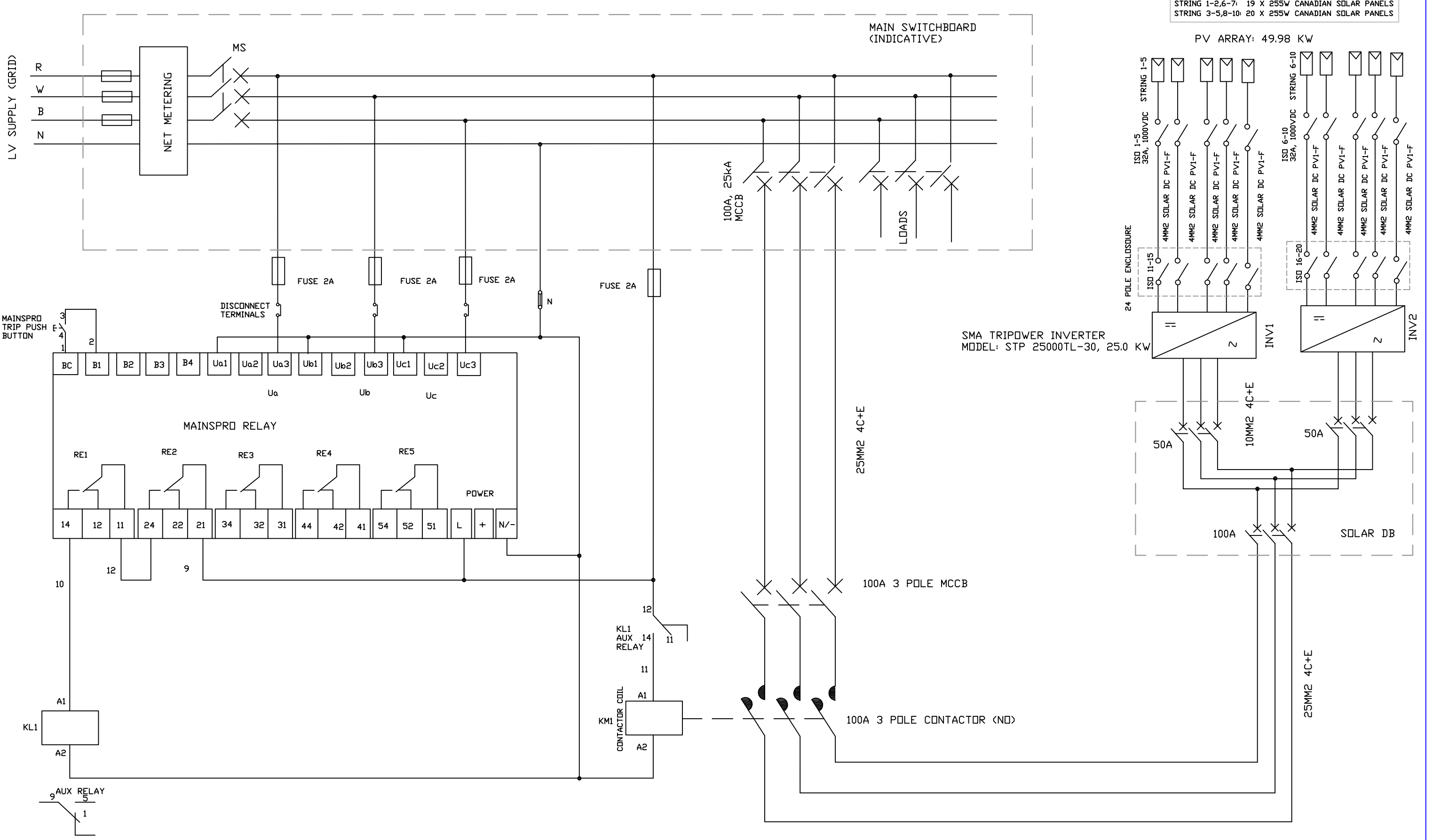


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1. Technology: Solar PV
  2. Maximum Power: 50 kW
  3. Contribution to fault levels: N/A
  4. Size & rating of the relevant Transformer: N/A
  5. Single line diagram: refer to following page
  6. Protection Systems & Communication Systems: refer to following page
  7. Voltage Control and reactive power capability: N/A
  8. Details specific to the location of facility: N/A



Item	Back-up Protection	Setting	Time Delay
1	Under-voltage (UV) : (27P)	200V	2 Sec
2	Over-voltage (OV) : (59P)	270V	2 Sec
3	Under-frequency (UF) : (81U)	48 Hz	2 Sec
4	Over-frequency (OF) : (81O)	52 Hz	2 Sec
5	Rate of change of Frequency (ROCOF) : (81R)	1 Hz/s	
6	Voltage Vector Shift (VVS) :	8°	Half Cycle
7	Reconnection Time: 70 S		

Item	Inverter Settings	Value
1	Vmax	257V
2	Vmin	200V
3	Fmax	52 Hz
4	Fmin	48 Hz
5	Disconnect Time	2 Sec
6	Reconnect Time	60 Sec

TITLE	CUSTOMER
ELECTRICAL SCHEMATIC DIAGRAM BACK-UP ANTI-ISLANDING PROTECTION OF A 50.0 KW GC SOLAR PV SYSTEM WITH MAINS PRO RELAY	[REDACTED]
COMPANY	NATURAL ENERGY ENGINEERS, [REDACTED]
	PV ARRAY: 49.98kW
	DRAWING NO. NE0001 [REDACTED]
	SCALE: NOT TO SCALE REV. NO.1
	DATE: 13/10/2015