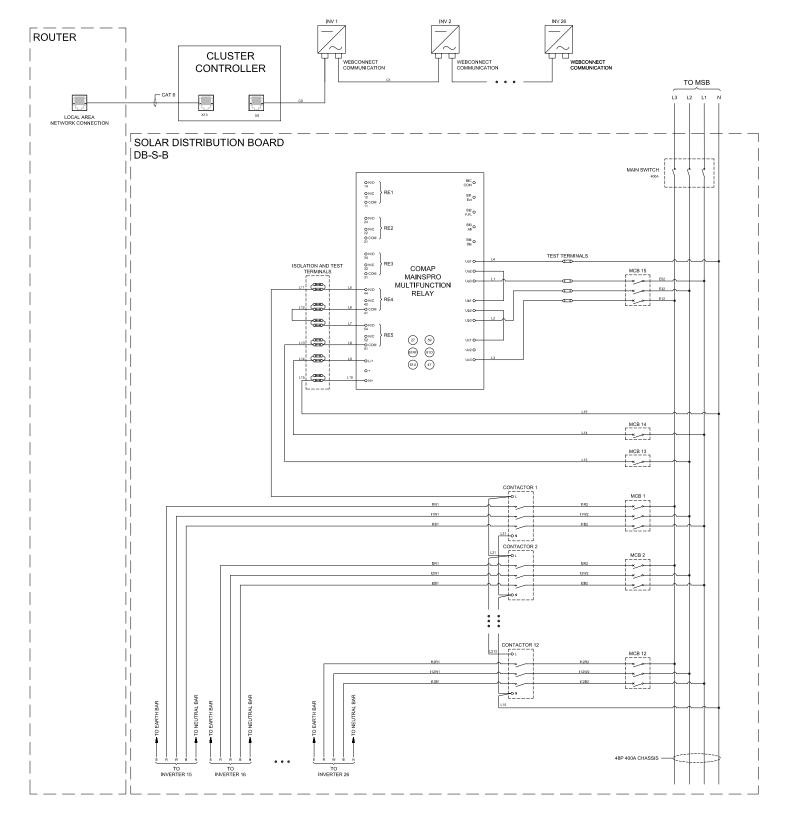
SOLAR DB COMPONENT SCHEDULE						
PART NR.	ID	MANUFACTURER	DESCRIPTION			
1-8	MCB 1-8	GE	50A 3P MCB (INV 15-22 CONNECTION)			
9	МСВ 9	GE	32A 3P MCB (INV 23 CONNECTION)			
10-11	MCB 10-11	GE	16A 3P MCB (INV 24-25 CONNECTION)			
12	MCB 12	GE	10A 3P MCB (INV 26 CONNECTION)			
13	MCB 13	GE	6A 1P MCB (CONTROL SUPPLY)			
14	MCB 14	GE	6A 1P MCB (RELAY POWER SUPPLY)			
15	MCB 15	GE	6A 3P MCB (RELAY VOLTAGE REFERENCE)			
16	MAIN SWITCH	GE	250A 3P ISOLATOR			
17-30	CONTACTOR 1-14	ELKO	63A 4P N/O CONTACTOR (INV 1-14 CONTROL)			
31	MAINSPRO	ComAP	MAINSPRO MAINS DECOUPLING RELAY			

MULTIFUNCTION RELAY TERMINAL SCHEDULE				
TERMINAL	L FUNCTION			
RE 1	SPARE	/		
RE 2	SPARE	/		
RE 3	SPARE	/		
RE 4	!CommTrpPer	N/O		
RE 5	!InternFail	N/O		

CABLE SCHEDULE			
INVERTER 15-22 TO SOLAR DB	4C + E 10mm² Cu		
INVERTER 22-26 TO SOLAR DB	4C + E 6mm² Cu		
SOLAR DB TO MSB	4x1C 300mm² Cu + E		
AC CONTROL CIRCUITS	1.5mm² COPPER		

ITEM	SECONDARY PROTECTION FUNCTIONAL DESCRIPTION	VALUE	TIME DELAY	
1	Under-voltage (UV) : (27P)	205 V	2 Sec	
2	Over-voltage 1 (OV) : (59P)	257 V	2 Sec	
3	Over-voltage 2 (OV): (59P)	265 V	0.2 Sec	
4	Under-frequency (UF) : (81U)	48.0 Hz	2 Sec	
5	Over-frequency (OF) : (810)	52.0 Hz	2 Sec	
6	Rate of change of Frequency (ROCOF) : (81R)	1Hz/s		
7	Voltage Vector Shift (VVS) : (78)	8°		
8	Minimum Import	0.0 kW	2 Sec	
9	Reconnection Time: 60 Sec following restoration of supply following a supply network outage			



SOLAR DISTRIBUTION BOARD WIRING SCHEMATIC

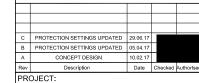
INVERTER PROTECTION FUNCTIONAL DESCRIPTION VALUE TIME DELAY Under-voltage 205 V 2 Sec 2 Over-voltage 1 257 V 2 Sec Over-voltage 2 3 265 V 0.2 Sec Under-frequency 4 48 Hz 2 Sec 5 Over-frequency 52.0 Hz 2 Sec 6 Reconnect Time 60 Sec

- 1. MAINSPRO DECOUPLING RELAY USES NORMALLY OPEN CONTACTS. WHEN A FAULT IS DETECTED A CIRCUIT IS BROKEN TO THE AC CONTROL CIRCUIT CAUSING IT TO TRIP THE CONTACTORS.
- 2. AUTO RECONNECT SETTING: 60 SECONDS AFTER FAULT IS CLEARED.
- 3. START TRIP ACTIVATED ON RELAY.



GENERAL NOTES:

- 1. THIS DRAWING IS THE COPYRIGHT OF SOLGEN ENERGY PTY LTD AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE EXPRESS PERMISSION OF SOLGEN ENERGY PTY LTD.
- 2. DO NOT SCALE FROM THE DRAWINGS.
- 3. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 4. EXACT LOCATION OF ALL PARTS OF THE INSTALLATION TO BE DETERMINED
- 5. MCB TO MATCH MAKE, MODEL AND FAULT CURRENT OF EXISTING CIRCUIT BREAKERS.





SOLGEN ENERGY PTY LTD



DRAWING TITLE:

DB-S-B WIRING AND PROTECTION SETTINGS

SCALE	DRAWN	CHECKED	AUTHORISED	SIZE
AS SHOWN	-			A3
AS SHOWN	Date: 10.02.2017		Date: 10.02.2017	
DRAWING	Rev			
D-EL-23965P3-204				

