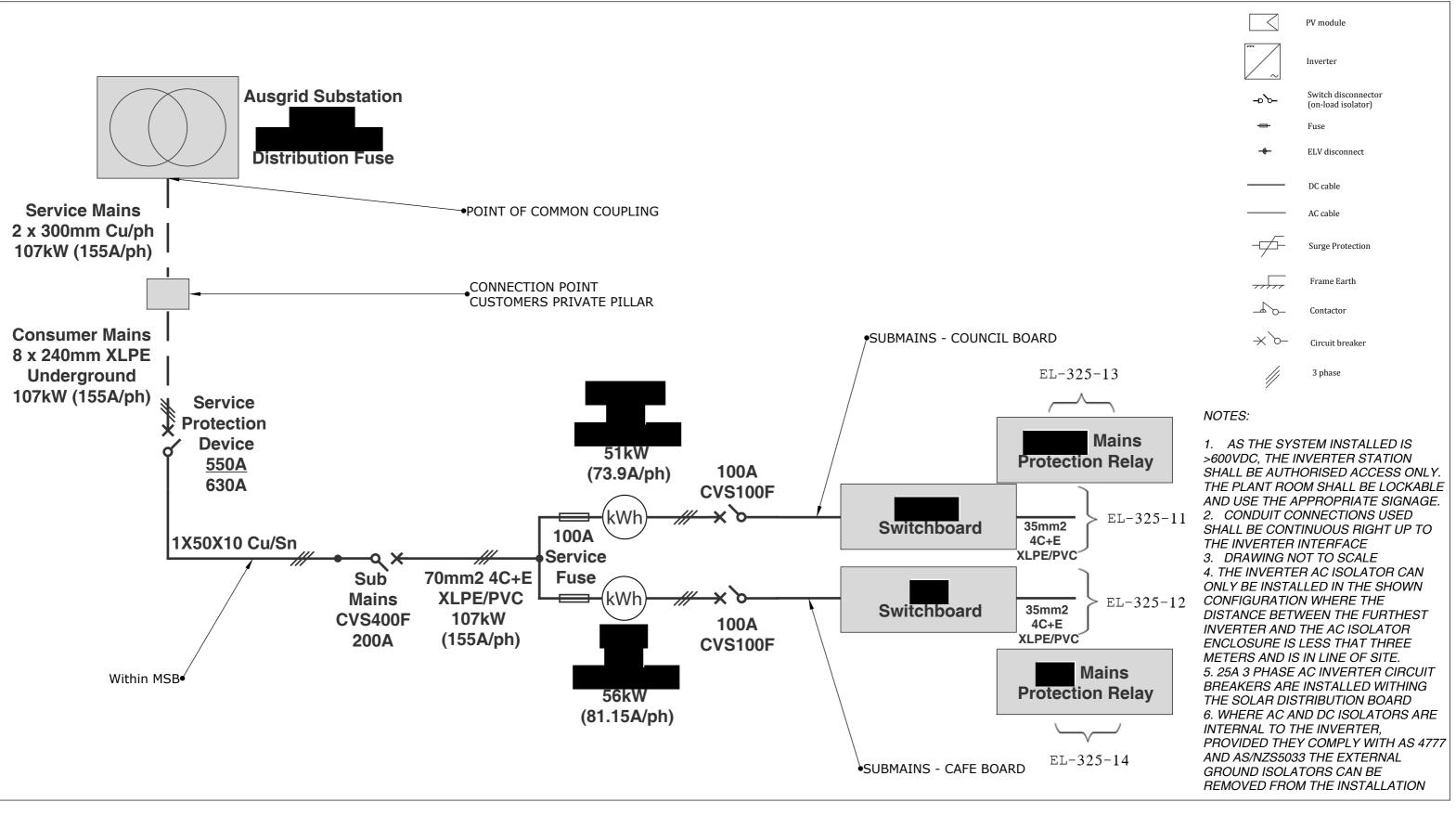
- Technology: Solar PV
 Maximum Power: 107 kW
- 3. Contribution to fault levels: N/A
- 4. Size & rating of the relevant Transformer: N/A
- 5. Single line diagram: refer to following page
 6. Protection Systems & Communication Systems: refer to following page
 7. Voltage Control and reactive power capability: N/A
 8. Details specific to the location of facility: N/A





O/U VOLTAGE SETTINGS

Setting	Setpoint	Pass Criteria		
	Value	Unit	Lowest	Highest
OV Pickup	265	Hz	260	270
OV Timing	1.2	S		1.2
UV Pickup	200	Hz	195	205
UV Timing	1.2	S		1.2

O/U FREQUENCY SETTINGS

Setting	Setpoint		Pass	
			Criteria	
	Value	Unit	Lowest	Highest
OF Pickup	51.5	Hz	51	52
OF Timing	1.2	S		1.2
UF Pickup	48.5	Hz	48	49
UF Timing	1.2	S		1.2

VECTOR SHIFT SETTINGS

Setting	Setpoint		Pass	
			Criteria	
	Value	Unit	Lowest	Highest
+ve Vector	8	Degrees	7	9
Shift Pickup				
-ve Vector	8	Degrees	7	9
Shift Pickup				

ROCOF SETTINGS

Setting	Setpoint		Pass Criteria	
	Value	Unit	Lowest	Highest
+ve ROCOF Pickup	1	Hz/s	1	1
-ve ROCOF Timing	1	Hz/s	1	1

PROJECT & DRAWING NAME/NUMBER: EL-325-14

29/06/16

Reviewed b

LOGIC TABLE

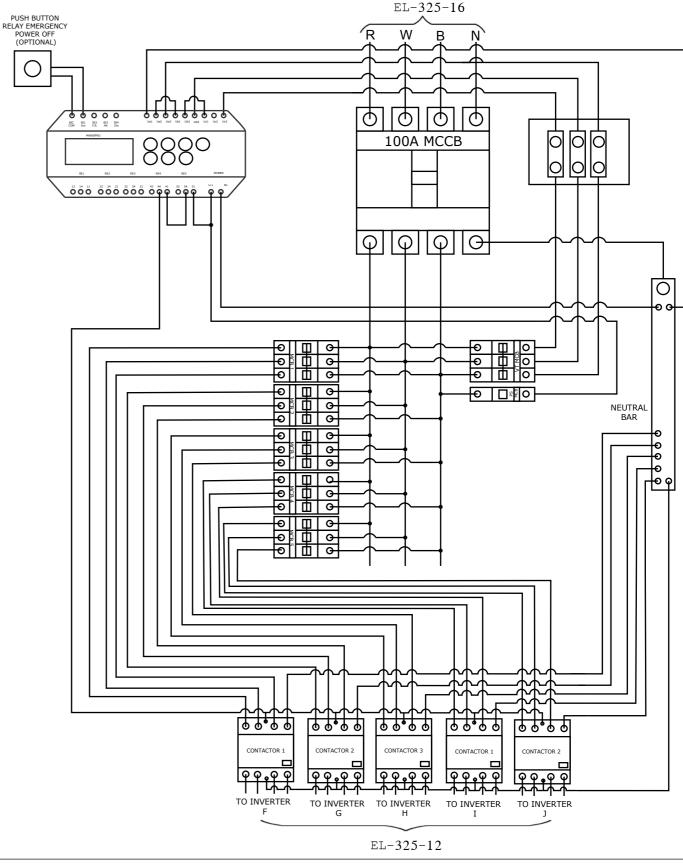
Relay	Relay Setting	Operation
RE4	CommSigImp	N/O, Opens on "Out of Tolerance" Conditions
RE5	Other Sig	N/O, Opens on internal Fault "Watch Dog" Relay
RE1	CommSigImp	N/O, Same as RE4, For test event outputs

NOTES:

29/06/16

Drawn

1. TWO MAINS PROTECTION RELAYS WILL BE INSTALLED. ONE AT THE COUNCIL SWITCHBOARD AND ONE AT THE CAFE SWITCHBOARD.



REMARKS Scale: global Print: sustainable energy REVISION HISTORY solutions DATE DESCRIPTION DRAWN REVIEWED APPROVED 1 DD/MM/YY 2 DD/MM/YY 3 DD/MM/YY 4 DD/MM/YY **GSES** 5 DD/MM/YY

Approv

29/06/16

A4

O/U VOLTAGE SETTINGS

Setting	Setpoint	
	Value	Unit
OV	260	V
Pickup		
OV	1.2	S
Timing		
UV Pickup		V
UV	1.2	S
Timing		

O/U FREQUENCY SETTINGS

Setting	Setpoint	
	Value	Unit
OF Pickup	I	Hz
OF	1.2	S
Timing		
UF Pickup	49	Hz
UF	1.2	S
Timing		

VECTOR SHIFT SETTINGS

Setting	Setpoint	
	Value	Unit
+ve	7	Degrees
Vector		
Shift		
Pickup		
-ve	7	Degrees
Vector		
Shift		
Pickup		

ROCOF SETTINGS

Setting	Setpoint	
	Value	Unit
+ve ROCOF Pickup	0.9	Hz/s
-ve ROCOF Timing	0.9	Hz/s

NOTES:

- 1. Where necessary Inverter settings are to be updated by a licensed electrician using the SMA Grid Guard Code
- 2. Inverters cannot withstand current injection therfore cannot be tested to pass criteria



29/06/16

Drawn



	RE	MARKS				Scale:	NTS
						Print:	A4
	RE	REVISION HISTORY					
	DA	ATE	DESCRIPTION	DRAWN	REVIEWED	APPROV	VED
	1	DD/MM/YY					
	2	DD/MM/YY					
	3	DD/MM/YY					
_	4	DD/MM/YY					
	5	DD/MM/YY					

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29/06/16

SMA INVERTER AUSGRID PROTECTION

REQUIREMENTS

PROJECT & DRAWING NAME/NUMBER: EL-325-15

29/06/16

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