



PV Module No.1 Parameters				PV Module No.2 Parameters			
LG Electronics	Voc	45.40 V	LG Electronics	Voc	41.72 V		
LG410N3K-V6	Isc	11.24 A	LG370S1C-U6	Isc	11.32 A		
Power: 410 W	Vmp	38.00 V	Power: 370 W	Vmp	33.95 V		
	Imp	10.79 A		Imp	10.91 A		

PV Module No.3 Parameters				PV Module No.4 Parameters			
Q.CELLS	Voc	37.21 V	Q.CELLS	Voc	45.06 V		
Q.MAXX-G4+ 410	Isc	13.61 A	Q.MAXX-G3 390	Isc	10.71 A		
Power: 410 W	Vmp	31.43 V	Power: 390 W	Vmp	38.01 V		
	Imp	13.04 A		Imp	10.26 A		

Inverter No.1 Parameters				Input	Panels	Vnom	Inom
SolarEdge	Phases	1	A:1	16	380	16.84	
HD-Wave Genesis	Power	5.0 kW					
SE5000H	Current	23.0 A					

Inverter No.2 Parameters				Input	Panels	Vnom	Inom
SolarEdge	Phases	1	A:1	16	380	15.58	
HD-Wave Genesis	Power	5.0 kW					
SE5000H	Current	23.0 A					

Inverter No.3 Parameters				Input	Panels	Vnom	Inom
SolarEdge	Phases	1	A:1	16	380	16.42	
HD-Wave Genesis	Power	5.0 kW					
SE5000H	Current	23.0 A					

Inverter No.4 Parameters				Input	Panels	Vnom	Inom
SolarEdge	Phases	1	A:1	16	380	17.05	
HD-Wave Genesis	Power	5.0 kW					
SE5000H	Current	23.0 A					

Site Export Limit:
5kW / Phase

Voltage Rise Summary		
Service Main	Consumer Main	MSB to Inverter
1 Phase	1 Phase	1 Phase
25 mm ² Al	16 mm ² Cu	16 mm ² Cu
23.0 A	23.0 A	23.0 A
	10 m	25 m
0.06%	0.28%	0.70%

Bill of Quantities		
Name / ID	Qty	Description
Panel No.1	12	LG Electronics: LG410N3K-V6
Panel No.2	20	LG Electronics: LG370S1C-U6
Panel No.3	12	Q.CELLS: Q.MAXX-G4+ 410
Panel No.4	20	Q.CELLS: Q.MAXX-G3 390
Optimisers	64	SolarEdge: S440 Optimiser
Inverter	4	SolarEdge: Home Genesis 5kW
16mm 2C+E	90m	16mm AC Inverter Cable
AC Isolator	4	Inverter AC Isolator
PV DP	4	PV Disconnection Point
Labelling Kit	1	CEC Compliant Labelling

- Notes:**
- The installation shall be completed by a licensed electrical contractor and in accordance with relevant Australian Standards
 - The cables/switches shall be installed as per Australian Standards
 - All the safety related issues shall be addressed to Australian Standards
 - Design is compliant with AS5033/2021
 - All DC and earth cable sizes shall be min 4mm² per conductor unless otherwise noted.

TITLE					
PV Single Line Diagram					
SCALE: NTS					
DRAWN	CHECKED	APPROVED	DATE	ACCREDITATION	
BR	BR	BR	13/01/25	S7647070	
Version:		Design_Tool_HCB			
Date:		12/06/2024			

REVISION DESCRIPTION	Project Management
Construction	HCB SOLAR

Solar Design	Client	Michael Haggerston
HCB SOLAR	Project	106 School Lane, Budgee Budgee
	Job No.	30034