



#	SPECIFICATION	RESPONSIBILITY
1	21no. 440W PV MODULES SUNPOWER SPR-MAX6-440-E3-AC	SUPPLIED & FIT BY TLGEC
2	ENPHASE Q-TERMINATOR 1 PER BRANCH	SUPPLIED & FIT BY TLGEC
3	DC CABLE ENTRY POINT SIZE/TYP/TYPE TBC	SUPPLIED & FIT BY OTHERS
4	PV MICROINVERTER 1 PER MODULE	SUPPLIED & FIT BY TLGEC
5	ENPHASE Q-CABLE 1 PER MODULE	SUPPLIED & FIT BY TLGEC
6	LOCKABLE AC ISOLATOR 20A SINGLE PHASE	SUPPLIED & FIT BY TLGEC
7	3 CORE CABLE SIZED FOR <1% VOLT DROP	SUPPLIED & FIT BY OTHERS
8	20A SINGLE PHASE RCBO TYPE B	SUPPLIED & FIT BY TLGEC
9	TESLA GATEWAY 2 INC. CT METERS	SUPPLIED & FIT BY TLGEC
10	TESLA POWERWALL2 BATTERY 5kW, 13.5kWh	SUPPLIED & FIT BY TLGEC
11	3 CORE CABLE 6MM	SUPPLIED & FIT BY TLGEC
12	LOCKABLE AC ISOLATOR 32A SINGLE PHASE	SUPPLIED & FIT BY TLGEC
13	32A SINGLE PHASE RCBO TYPE B	SUPPLIED & FIT BY TLGEC
14	MAINTAINED ESSENTIALS DISTRIBUTION BOARD	SUPPLIED & FIT BY OTHERS
15	THREE PHASE HAGER DB	SUPPLIED & FIT BY OTHERS
16	SUPPLY FEED TO RATING OF CUT OUT FUSE	SUPPLIED & FIT BY OTHERS
17	SHIELDED CAT6 5.E (OR GREATER)	SUPPLIED & FIT BY TLGEC
18	2 / 3 CORE CABLE 1.5MM2	SUPPLIED & FIT BY TLGEC
19	DEDICATED EARTH ELECTRODE	SUPPLIED & FIT BY TLGEC
20	INTERNET ROUTER	EXISTING
21	INCOMING SUPPLY	EXISTING
22	ENPHASE ENVOY-S METERED	SUPPLIED & FIT BY TLGEC
23	6A MCB THREE PHASE WITH SUPPLY FOR ENVOY	SUPPLIED & FIT BY OTHERS
24	CT MONITORING	SUPPLIED & FIT BY TLGEC
25	6A MCB SINGLE PHASE WITH SUPPLY TO HUB	NOT REQUIRED
26	MYENERGI HUB	NOT REQUIRED
27	5 CORE SWA	SUPPLIED & FIT BY TLGEC
28	MYENERGI ZAPPI 22kW THREE PHASE	SUPPLIED & FIT BY TLGEC
29	MYENERGI HARVI	SUPPLIED & FIT BY TLGEC
30	NEURIOMETER WITH CTS FOR MONITORING	SUPPLIED & FIT BY TLGEC
31	16A SINGLE PHASE MCB WITH SUPPLY FOR NEURIO	SUPPLIED & FIT BY OTHERS
32	RS485 SHIELDED	SUPPLIED & FIT BY OTHERS
33	63A THREE PHASE MCB	SUPPLIED & FIT BY OTHERS
34	63A SINGLE PHASE MCB	SUPPLIED & FIT BY TLGEC

**INVERTER DETAILS**

ENPHASE IQ7A MICROINVERTERS	
MAX. CONTINUOUS OUTPUT CURRENT	1.52A EACH
OPERATION PHASE	SINGLE PHASE
BRANCH A	7 MODULES
BRANCH B	7 MODULES
BRANCH C	7 MODULES

**SYSTEM DETAILS**

DECLARED NET CAPACITY	14.3kW
EXPORT (CAPACITY)	14.3kW

**NOTES:**

THE CABLE SIZES SPECIFIED ARE BASED ON DEDICATED WIRE RUNS FROM MAIN INCOMER TO THE INVERTER POSITION

IF THE INVERTER IS SERVED FROM A LOCAL DISTRIBUTION BOARD THE OVERALL CABLE LENGTHS MUST BE SUITABLY SIZED BACK TO THE MAIN INCOMER

ALL AC REQUIREMENTS ARE A MINIMUM REQUIREMENT FOR THE PV SYSTEM TO WORK EFFICIENTLY AND ARE NOT AN INSTRUCTION TO INSTALL THE EXACT EQUIPMENT. LARGER EQUIPMENT MAY BE REQUIRED AND USED AT THE ELECTRICAL CONTRACTORS DISCRETION. TLGEC TAKE NO RESPONSIBILITY FOR UNDER-SPECIFIED AC EQUIPMENT SUCH AS CABLE SIZING THAT ARE THE WORKS OF OTHERS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO APPROPRIATELY SIZE THE REQUIRED EQUIPMENT.

ELECTRICAL CONTRACTOR TO PROVIDE SPARE CABLE TO ALLOW FOR GENERATION METER INSTALLATION.

**APPROVED**

2.0	REVIEWED	28/04/23	BC	SC
1.3	MINOR AMENDMENTS TO RESPONSIBILITIES	28/04/23	BC	SC
1.2	REVISION FOLLOWING ELECTRICAL SURVEY	27/04/23	OL	CL
1.1	ADDITIONAL CTS	21/07/22	OL	CL
1.0	FIRST ISSUE	20/07/22	OL	CL
VER	DESCRIPTION	DATE	BY	AUTH

CLIENT

Adrian Aslett

PROJECT

Pippin Barn  
Felderland Lane

DRAWING TITLE

TLGEC Electrical Schematic

DATE 27/04/2023

SCALE NTS

DRAWN OL

DRAWING NUMBER

003

REVISION 2.0