



AQUAREVO

LYNDHURST

Solar Battery Design Guideline Addendum

The information contained within this document is relevant to those purchasers who have qualified to receive the bonus battery. Eligible purchasers who have elected to receive the battery are required to provide this information to their chosen builder to ensure they are aware of the provisions required to be made to their house designs to enable the installation of the battery. It is also the purchaser's responsibility to ensure the chosen solar panel system to be included on the house is compliant with the bonus battery (battery specifications provided below).

PLEASE NOTE:

As outlined within your contract of sale to receive the Battery Offer (5kWh Sonnen Eco9.53/5 Solar battery) the purchaser must:

- Within 9 months of the settlement date make a written request to Villawood (aquarevosolar@villawoodproperties.com) and Bristile (servicevic@bristile.com.au) for the Battery using the battery acceptance [form](#) and submit it with the house design plans to the Design Assessment Panel;
- Install a 3.0kW or greater solar PV array in a single phase electrical house connection which complies with the specifications within this document (please note the 5kWh Sonnen Eco9.53/5 Solar battery which forms part of this offer includes an inverter);
- Make the house ready for the installation of the Battery in conjunction with your builder;
- Inform your builder of your intent to accept the Battery Offer and supply all information, details and specifications of the Battery and all other information the builder must allow for in the design and build of the home to enable the installation of the Battery;
- It is the purchaser's responsibility to ensure their solar PV array is compatible with the battery;
- As part of your builders Design Assessment Panel submission details of the proposed solar PV array needs to be provided including; size, location, supplier/installer and brand as well as confirmation that the panels are Tier 1.

Battery installation process guide for purchasers once the build has commenced

- Provide the site NMI (10-11 digit number found on electrical connection paperwork and power bills) and meter number (found on the meter itself), account name on the electricity account, and contact details for the electrical account to Bristile when available;
- Provide call up for the battery and an estimated date for when the site will be ready for installation (permanent power on and house at lock up) to Bristile (call up with minimum 15 business days notice);
- Supply Bristile with photos of the Main switchboard and battery related cables, showing the provisions of the DGL relating to the battery;
- Once all steps above have been completed, and requirements are met, the battery will then be scheduled for installation;
- System inspection will be booked ASAP after the installation, this is carried out by a third party inspector, and is typically at most 15 business days later;

- Grid connection application is completed once electrical inspection paperwork is received, and typically takes the electricity provider up to 10 business days to process;
- Final Handover documentation is provided once grid connection is complete.

Battery installation information for builders

- Provide Single Phase AC cabling between the battery location and the main switchboard of 4mm (if within 3m of the main switchboard) or 6mm (if up to 20m of the switchboard);
- Provide a CAT5 or higher data cable from the battery location to the home internet router location;
- If the battery is to be installed on an internal wall (such as the wall between the garage and the hallway) WSX3 protection (steel conduit) is required on cabling for the battery;
- If the battery is backing onto a habitable room, the wall and roof area within 900mm above/in front of the battery, and 600mm either side need to be non-combustible material, the above areas should also be free of entrances, exits, and non-associated items/appliances;
- Impact protection such as a nib wall or bollard is required where car impact could occur;
- Provide a Cbus cable between the battery location and the main switchboard;
- Provide adequate available electrical poles in the Main Switchboard (minimum 7 poles on a single phase site, 10 poles on a three phase site, where a separate solar inverter is used);
- Cabling must be accessible and easily located.

FURTHER INFORMATION / LINKS:

Aquarevo Design Guidelines:

- <https://villawoodproperties.com.au/community/aquarevo/purchaser-information/design-guidelines/>

Aquarevo Building Information:

- <https://villawoodproperties.com.au/community/aquarevo/purchaser-information/building-information/>

Bristile:

- <https://bristileroofting.com.au/solar/>

Sonnen (battery):

- <https://sonnen.com.au/sonnenbatterie/>

Single Phase DC Sonnen

If insufficient room in main switchboard (MSB) then PV DB required as per SLD.

Sonnen Components Three Phase	Rating Poles
Battery Protection Circuit Breaker	20 Amp
CT Transducer Load	2
Circuit Breaker for Power Meter	6 Amp
Power Meter	4
Total Poles	8

Total Poles Required in MSB 8

Material	Rating	Quantity
Single Pole Circuit Breaker	20 Amp	1
Single Pole Circuit Breaker	6Amp	1
Bus Bar 3 Poles Long Single Phase	32 Amp	1
Switchboard Requirement 8 Poles		1

Switch Board Configurations

1	2	3	4	5	6	7	8	9
MAIN SWITCH 25AMP	BATTERY/SOLAR CB SONNEN 20AMP	POWER METER SONNEN CB 6AMP	SONNEN POWER METER			CT TRANSDUCER		



LEESSON GROUP
11/23 SUSAN STREET
ELTHAM, VIC 3095

REV.	DATE	DESCRIPTION	B.DEV.	B.DRW.	P.LEE	APR.
A	19/07/18	PRELIMINARY SWITCHBOARD CONFIGURATION - AQUAREVO				

PROJECT TITLE :
Sonnen DC Hybrid Switchboard Req
PROJECT LOCATION :
Aquarevo - Victoria
TOWN: -
DRAWING TITLE :
Switchboard 1 Phase Sonnen DC

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