

Risk assessment – aPower + aGate

Address Of Installation	Certified FranklinWH Installer	
Battery System Manufacturer and Model	FranklinWH aPower X-01-AU (AS4777-2 2020)	
DVC Level - Not Applicable to Type 4 BESS	IP Rating – IP55 / IP67	Temperature Range -20°C to +50°C
Battery product type as per AS/NZS 5139/2019	Section 4 BESS	

Assessed By		Checked By
Date ___/___/___		

For information on completing this risk assessment refer to AS/NZS 5139 : 2019. This is not a complete risk assessment for an installation and does not include on-site Safe Work Method Statements or a Job Safety Analysis. Carry out a risk assessment for an installation and include other hazards.

No	Hazard Description	Potential Source	Possible Consequences	Inherent Risk	Controls	Residual Risk
1	Electrical Hazards	<ul style="list-style-type: none"> aPower Terminals aGate Terminals Switchboards 	Electrocutation Death Fire Property Damage Loss of power to installation	High	<ul style="list-style-type: none"> Follow manufacturers instruction for BESS installation Test all terminal and equipment before touching exposed parts Conduct a JSA and SWMS for installation 	Medium
2	Energy Hazard	<ul style="list-style-type: none"> aPower *note – as a type 4 BESS there is no access to DC components or terminals 	Fumes Fire	Low	<ul style="list-style-type: none"> Follow manufacturers instruction for BESS installation 	low

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		<ul style="list-style-type: none"> • Site Specific Hazards <ul style="list-style-type: none"> ○ Motor Vehicle Strike Other 			<ul style="list-style-type: none"> - Check aPower for any damage to outer case caused during shipping. If there is damage contact FranklinWH before installing - Install appropriate bollard to protect from vehicle strike - Is a better location available 	
3	Mechanical Hazard	<ul style="list-style-type: none"> • Crush injury by weight of battery • Crush by falling battery • During transport • Fitting to wall • Incorrect mounting • Personal injury by strain • aPower weight 185kG - Site specific Hazard 	Crush to body part Serious injury	Medium	<ul style="list-style-type: none"> - Follow manufacturers instruction for BESS installation - Ensure sufficient staff available for activity - Use suitable lifting apparatus - Check integrity of mounting surface before installation - Follow FranklinWH Installation Instructions - Ensure staff are suitable trained - Appropriate PPE (as per JSA) <ul style="list-style-type: none"> ○ Protective Foot Ware ○ Gloves ○ ○ ○ 	Low
4	Explosive Gas Hazards	The FranklinWH aPower is a LFP Battery Chemistry and does not produce Hydrogen or other explosive gases in normal operation	NA	Low	<ul style="list-style-type: none"> - Not required 	Low

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5	Toxic Fumes	Risk of exposure occurs only if aPower is mechanically, thermally, or electrically abused to the point where both the protective case and battery are compromised	Skin Irritation Respiratory Irritation Eye Damage / Irritation	Low	Follow manufacturers instruction for BESS installation If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.	Low
6	Site Specific					

Material Safety Data Sheet is available on the Document section of our Website. <https://www.franklinwh.com/document/safety-data-sheet-au>

This Risk Assessment should be completed by the installer and have site specifics taken into account. Where applicable, Risk levels should be adjusted by the installer to consider site specifics

It should be read in conjunction with

- AS/NZS5139 section 3 Battery Energy Storage Systems Hazards
- AS/NZS5139 section 4 Pre Assembled BESS installations
- AS/NZS5139 Appendix G Safety Risk Assessment For BESS and Battery Systems