FUSION

SOLAR ENERGY STORAGE SYSTEMS

Fusion Power Systems introduces the Fusion Titan. Australia's first name in safe, easy to install residential solar energy storage systems.

The Fusion Titan combines the revolutionary and cost effective salt water Aquion Energy battery with an Australian made, purpose built inverter and charge controller. This system delivers energy storage that outperforms traditional battery systems and is ideal for off-grid setup or load shifting power.

Manufactured carbon neutral, Fusion energy storage systems are free of toxic chemicals, 100% recyclable, fire safe and built tough for Australian conditions.

SAFE

AUSTRALIAN INNOVATION

EASY TO INSTALL

MANUFACTURED CARBON NEUTRAL

FUSION TITAN

- Hybrid system
- Aquion Energy battery
- Australian made purpose built inverter
- Australian made charge controller
- 8 year system warranty

Fusion Titan 1	Fusion Titan 3	Fusion Titan 5
1.2 kW inverter	3.5 kW inverter	5 kW inverter
40 amp charge controller	60 amp charge controller	2 x 60 amp charge controllers
2 x S30 stacks (can take up to 4)	4 x S30 stacks (can take up to 8)	8 x S30 stacks (can take up to 12)
Can support up to 1.5 kW panels* (max)	Can support up to 3 kW panels* (max)	Can support up to 6 kW panels* (max)
4 kW hours storage^	**8 kW hours storage^**	**16 kW hours storage^**

All systems include IP rated cabinet, isolators and circuit breakers.

Aquion Energy battery

- 100% depth of discharge when used with compatible inverter
- 10 year operating life†
- Lithium, lead and acid free
- U.S. manufactured
- Extreme temperature tolerance

Australian made inverter and charge controller

- Hybrid inverter
- Expandable capacity
- Web enabled monitoring
- Maintenance free
- High efficiency, toroidal transformer

Talk to a Fusion energy storage expert today.

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^Battery storage capacity is based on typical usage 100W per stack charge/discharge rate. This capacity may vary depending on the installation. * Panels not included in the system. †Based on full discharge daily cycle.

FUSION TITAN

Technical specifications

Pallas

Atlas

	TITAN 1		TITAN 3		TITAN 5	
Enclosure Type	Pallas	Atlas	Pallas	Atlas	Pallas	Atlas
Inverter Continuous Power	1.2 kW		3.5 kW		5 kW	
Inverter Surge Power (5 seconds)	3.6 kW		10.5 kW		15 kW	
Inverter Peak Efficiency	94%					
Charge Controller Power	40 Amps		60 Amps		120 Amps	
Number of Included Batteries	2		4		8	
Maximum Number of Supported Batteries	4		8		12	
Number of Included Enclosures	1		1		2	
Nominal kW Hours of Storage (Average)*	4 kWh		8 kWh		16 kWh	
Maximum kW Hours of Storage (Theoretical)**	5.2 kWh		10.4 kWh		20.8 kWh	
Number of Supported Panels (Maximum)	1.5kW		3 kW		6 kW	
PV Input Voltage (Maximum)	140 VDC					
Battery Charge Setpoints	Bulk, Absorption, Equalise, and Float					
Battery Cycle Life at 100% DoD	3000 cycles at 100% capacity, 1000 additional cycles at 80% capacity, 1000 additional cycles at 70% capacity (total 5000 cycles)					
Operating Temperature	-5°C to 50°C ambient (maximum of 24 hours continuous at 40°C)					
Battery Voltage	48VDC Nominal					
Inverter DC Voltage	48VDC Nominal					
Inverter Output Voltage	230VAC ±4% standard					
Inverter Output Frequency	50/60Hz ±0.1%					
Output Waveform	True sinewave <4% THD					
Enclosure Rating	IP56					
Standards	AS2278, AS3000, AS3100, EN55014, EN 60335-1, EN6100-6-1, EN61000-6-3, AS1044, IEC62109-1, IEC62109-2					
Inverter Cooling	Thermostatically controlled fan					
Warranty	8 years on full system including enclosure, inverter, charge controller and batteries					
Protection	Galvanic Isolation, full electronic protection against overload, over-temperature, short circuit, battery over and undervoltage					
Regulation Method	Multiphase, pulse width modulation with maximum power point tracking					
Communications Ports	CANBus, ethernet, USB, SD Card					
Width (mm)	1463	814	1463	814	2926	1628
Depth (mm)	454	704	454	704	454	704
Height (mm)	1536	1854	1536	1854	1536	1854
Weight (kg)	376	376	614	614	1207	1207

* Amount of energy storage achievable by an average house with average daily charge and discharge rates.
** Requires optimum charging and discharging rates to achieve theoreticial maximum kW hour storage capacity.

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