

3- 5KW HYBRID GRID TIE PV INVERTER SYSTEM WITH LITHIUM BATTERIES

JUNE 2018

Hybrid Inverter 3- 5KW

Wall Mount Lithium Battery

Rack Mounted

Solar Panels

2.5KW - 5.12KW

2.5 to 10.24KW

3.5 to 5.1KWP



+



OR



+

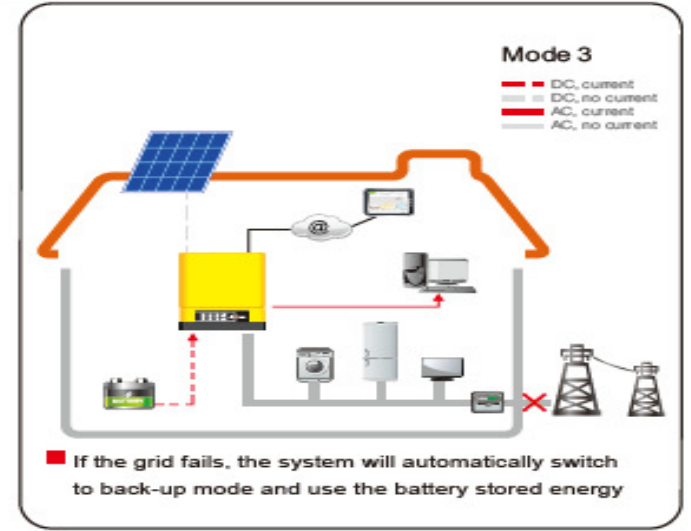
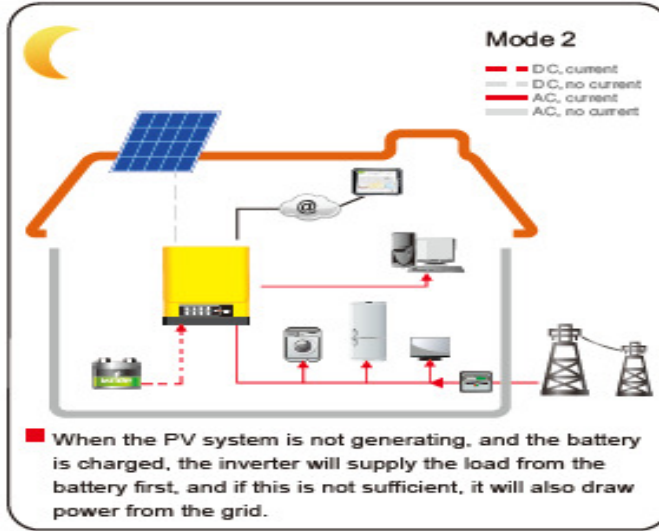
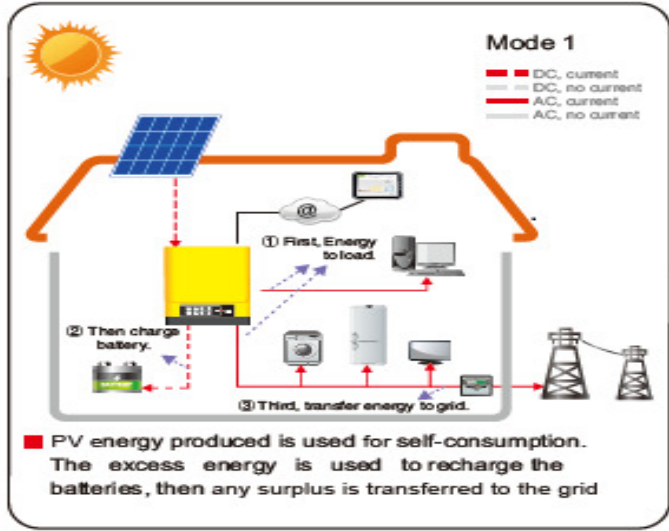


Residential PV Systems are designed to reduce your energy bill and utilize all the power produced from the sun. However residential loads usually peak in the early morning and evening during peak occupancy periods.

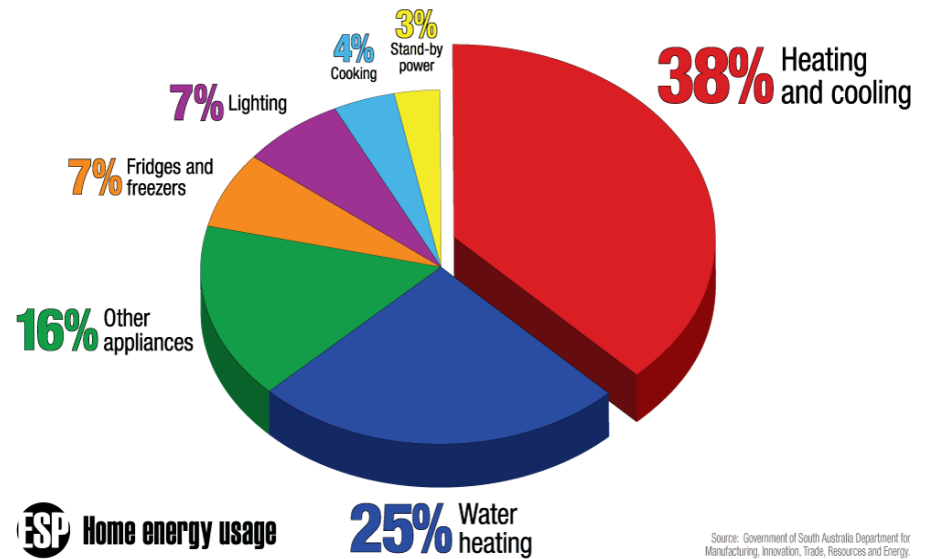
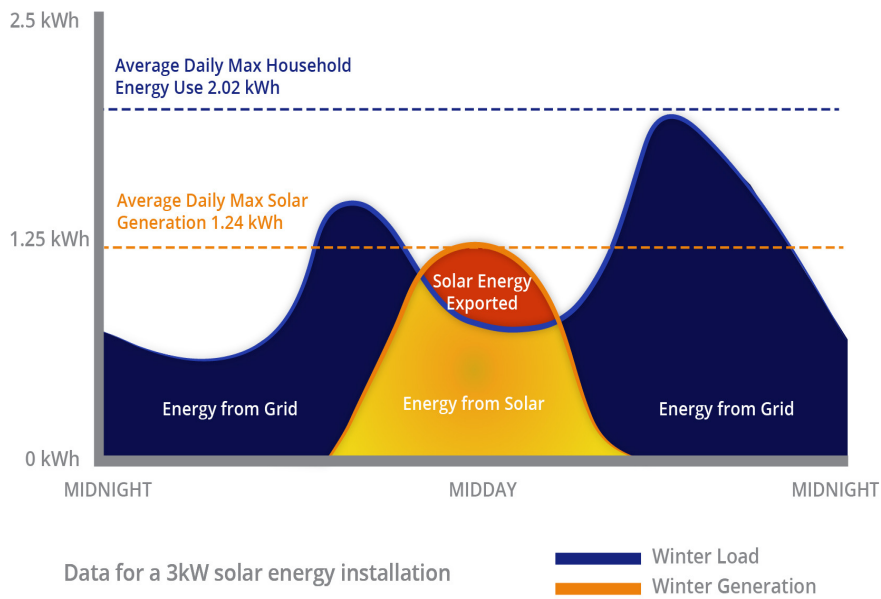
Unless the systems are designed to nett feed the grid (with council approval) there will be periods when the PV Power produced will be greater than the energy consumed.

To optimize the power produced unless there are loads present this power will need to be stored. The development of new Inverter Hybrid Inverter Power Control Technology combined with the latest offering of Lithium Battery Systems will allow for Residential users to store the power they don't use in the day and discharge it at night.

Lithium Batteries allow for multiple rapid charge and discharge cycles. With the help of power monitoring software. both Energy Efficiency and Independence can be provided for.



Inverter	PV make	size watt	Recommended Retail	VAT Inclusive	Yield kw hours per day	Cost of Electricity per day	Savings per day	Pay in years	ROI	Cost/ watt
GoodWe 3.0kW EM Hybrid / BYD 2.5kWh Package	JA Solar 320	3520	R86 400.00	R99 360.00	17.1	1.96	33.6	7.0	14.19%	24.55
GoodWe 3.0kW EM Hybrid / Pylon 2.4kWh Package Including Cabinet	JA Solar 320	3520	R83 200.00	R95 680.00	17.1	1.96	33.6	6.8	14.74%	23.64
GoodWe 3.0kW EM Hybrid / BYD 5.0kWh Package	JA Solar 320	3520	R105 500.00	R121 325.00	17.1	1.96	33.6	8.6	11.62%	29.97
GoodWe 3.0kW EM Hybrid / Pylon 4.8kWh Package Including Cabinet	JA Solar 320	3520	R98 400.00	R113 160.00	17.1	1.96	33.6	8.0	12.46%	27.95
GoodWe 5.0kW EM Hybrid / BYD 5.0kWh Package	JA Solar 320	5120	R126 200.00	R145 130.00	24.9	1.96	48.9	7.1	14.13%	24.65
GoodWe 4.6kW ES Hybrid / BYD 10kWh Package	JA Solar 320	5120	R179 800.00	R206 770.00	24.9	1.96	48.9	10.1	9.92%	35.12



PRODUCT WARRANTIES

SOLAR PANELS JA SOLAR

12 YEAR Product Warranty

25 YEAR Linear power output warranty

INVERTER

GOODWE, ES, EM, BP and SBP series Inverters come standard with a manufacturer's warranty of 5 years

BATTERIES

BYD Lithium Batteries have a 10 year warranty.

Pylon Batteries have a 7 year warranty.

info@bluesunenergy.co.za www.bluesunenergy.co.za
t. +27 (0)21 424 1935 f. +27 (0)21 424 1938