



SPECIALIZED SOLAR SYSTEMS®

Residential Hybrid Solar Systems

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A **hybrid solar system** intelligently switches to grid-power(Eskom) when extra power is needed, or if storage power is not adequate. Hybrid solar systems give you the best of both worlds - the added convenience of a grid connected system with the ability to earn *Feed-In-Tariff Credits (if your municipality allows)* and the security of battery backup. This means that you should always have electricity, even during a power outage and bad patches of weather.

These systems also provide you with the added flexibility of being able to store the energy generated during the day ('load shift') instead of feeding it back into the grid at a typically low feed-in tariff. This allows the stored energy to be used in the evening, instead of using grid-energy higher price evening tariffs.

The following hybrid solar systems are a selection of **SPECIALIZED SOLAR SYSTEMS** most popular residential grid-interactive hybrid solar systems. These proven systems are providing our many customers with a cost-effective and well-balanced solar energy solution that includes reliability, cost savings and energy security with a positive environmental impact. [Read more about hybrid solar systems online.](#)

A: 3KV 12KWHR PER DAY HYBRID WITH LITHIUM LIFEPO4 4KWHRS 70% DOD STORAGE (SMALL)

Using superior quality solar components, this intelligent Grid-Interactive Hybrid solar system with remote monitoring can supply a continuous 2.4kW of generated AC electrical energy for a daily average of 12-kilo-watt hour(kWh) from the solar panels. It comes with a proven lithium iron phosphate LifePO4 battery that has a storage capacity that will support 4kWh of daily electrical energy usage before reaching 70% depth of discharge (DOD). The 70% DOD maximizes the batteries lifespan and allows for a 10-year manufacturer guarantee.



SUMMARY OF EQUIPMENT	ASSURANCES
9 x 260Watt Solar Modules	10 Year manufacturer guarantee
1 x Freedom Lite 100AH 48V (4kWh @70% DOD)	10 Year manufacturer guarantee
1 x 70Amp MPPT - TR (Maximum Power Point Tracker)	5 Year manufacturer guarantee
1 x Victron Blue Power Venus GX	5 Year manufacturer guarantee
1 x 3KV 48V 35 Victron Multiplus Inverter/Charger	5 Year manufacturer guarantee
System Programming and Maintenance/Owner Training	1 Year workmanship guarantee
Please contact your SPECIALIZED SOLAR SYSTEMS representative for the latest pricing	
Additional Costs: Installation Costs and Consumables	1 Year workmanship guarantee



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B: 5KV 12KWH PER DAY HYBRID WITH LITHIUM LIFEPO4 4KWHR 70% DOD STORAGE (MED)

Using superior quality solar components, this intelligent Grid-Interactive Hybrid solar system with remote monitoring can supply a continuous 4kW of generated AC electrical energy for a daily average of 12-kilo-watt hour(kWh) from the solar panels. It comes with a proven lithium iron phosphate LifePO4 battery that has a storage capacity that will support 4kWh of daily electrical energy usage before reaching 70% depth of discharge (DOD). The 70% DOD maximizes the batteries lifespan and allows for a 10-year manufacturer guarantee.



SUMMARY OF EQUIPMENT	ASSURANCES
9 x 260Watt Solar Modules	10 Year manufacturer guarantee
1 x Freedom Lite 100AH 48V (4kWh @70% DOD)	10 Year manufacturer guarantee
1 x 70Amp MPPT - TR (Maximum Power Point Tracker)	5 Year manufacturer guarantee
1 x Victron Blue Power Venus GX	5 Year manufacturer guarantee
1 x 5KV 48V 70 Victron Multiplus Inverter/Charger	5 Year manufacturer guarantee
System Programming and Maintenance/Owner Training	1 Year workmanship guarantee
Please contact your SPECIALIZED SOLAR SYSTEMS representative for the latest pricing	
Additional Costs: Installation Costs and Consumables	1 Year workmanship guarantee

C: 5KV 24KWHR PER DAY HYBRID WITH LITHIUM LIFEPO4 7KWHR 70% DOD STORAGE (LARGE)

Using superior quality solar components, this intelligent Grid-Interactive Hybrid solar system with remote monitoring can supply a continuous 4kW of generated AC electrical energy for a daily average of 24-kilo-watt hour(kWh) from the solar panels. It comes with a proven lithium iron phosphate LifePO4 battery that has a storage capacity that will support 7kWh of daily electrical energy usage before reaching 70% depth of discharge (DOD). The 70% DOD maximizes the batteries lifespan and allows for a 10-year manufacturer guarantee.



SUMMARY OF EQUIPMENT	ASSURANCES
18 x 260Watt Solar Modules	10 Year manufacturer guarantee
1 x Freedom Lite 200AH 48V – Usable 7kWhrs @ 70% DOD	10 Year manufacturer guarantee
1 x 100Amp MPPT - TR (Maximum Power Point Tracker)	5 Year manufacturer guarantee
1 x Victron Color Control GX – Online Monitor	5 Year manufacturer guarantee
1 x 5KV 48V 70 Victron Multiplus Inverter/Charger	5 Year manufacturer guarantee
System Programming and Maintenance/Owner Training	1 Year workmanship guarantee
Please contact your SPECIALIZED SOLAR SYSTEMS representative for the latest pricing	
Additional Costs: Installation Costs and Consumables	1 Year workmanship guarantee

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