GREATER RAND MANUFACTURING

SOLAR SWITCH
Qualification Guide

Peak Solar Detection Switch for Improved Solar System Management

DOES YOUR SYSTEM QUALIFY FOR A FOR SOLAR SWITCH?

- Monitor and record typical system performance
- Evaluate the capacity available on the system throughout the day.
- Determine the power consumption of the loads that you want to connect.
- Do you have a timer that controls the load that you want to run on the solar?

- Example: Pool
  - What power does your pool pump draw? (0.75kw)
  - Is there adequate power from the Solar system to supply the power for this load after the batteries have been charged while running the primary loads?
  - How long does the load need to run? (6 hrs)

Solar panels 8 panels @ 500w = 4kVA
Less efficiency margin 0.85 = 3.4kVA effective
Inverter capacity 5kVA
Typical household draw excluding batteries: 500W
Potential power available 2.9kVA

Outcome: The pool can comfortably run on the available power

Note: As there are many possible permutations and possibilities, each installation should be evaluated on its own conditions and merits by a suitably qualified individual

IMPORTANT

Prior to installing the switch and connecting the desired load to the solar inverter system, it must be confirmed that there is adequate capacity for the system to properly run the load.

Timers must be used to ensure that the optional loads are only switched on at appropriate times.

It is advisable to avoid activating the non-essential loads first thing in the morning as this is normally when the batteries consume the largest amount of energy. Timers can be used to activate the load/s after the batteries are typically fully charged.

Electrical wiring and installation protocols should be adhered to at all times

SOLAR SWITCH APPLICATIONS

POOL PUMP

POOL HEATER

HEAT PUMP

JACUZZI PUMP

JACUZZI HEATER

BOREHOLE PUMP

IRRIGATION PUMP

GEYSER

AIR CONDITIONER