

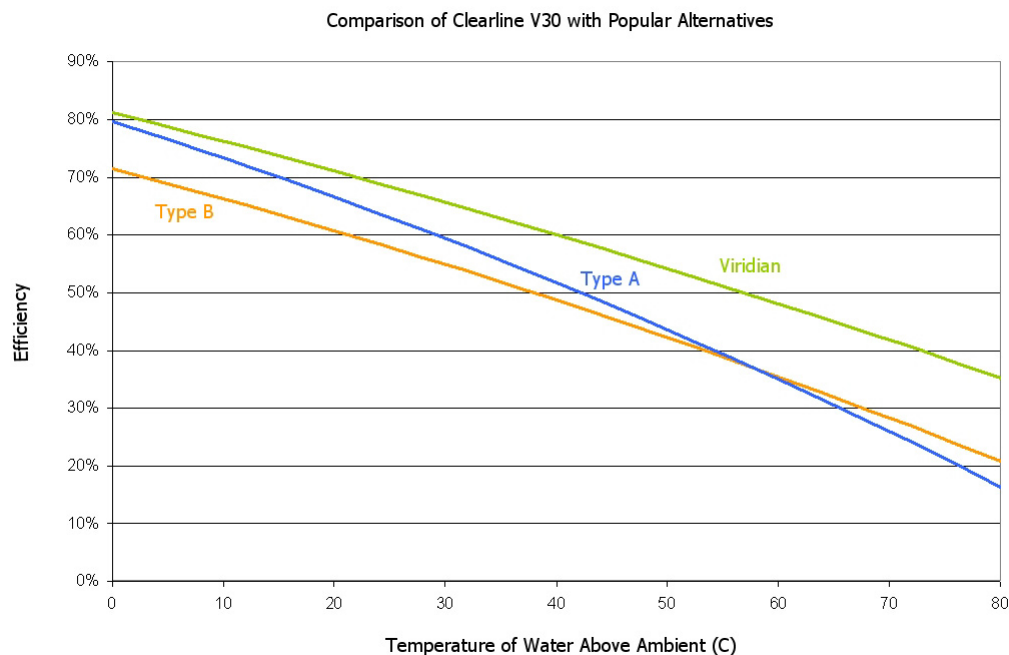
Comparison of Viridian Solar Panel With Commercially Available Alternatives

The thermal performance of the Viridian Clearline V30 solar panel is compared with accredited test data for other products in its class. The test data is for efficiency measured at an irradiation of 800W/m².

The maximum efficiency of a solar panel occurs when the water being heated is at the same temperature as the surrounding environment (ambient), and there is no heat loss. The highest efficiency is determined by the cover glass, and the absorber.

Efficiency decreases for solar panels as the temperature of the water being heated increases above ambient. The rate at which the efficiency decreases is determined by the quality of the insulation, the selective surface of the absorber, and the size of the air gap to the glass.

The solar glass, absorber design, and one-piece moulded insulated casing combine to produce an excellent overall efficiency. Viridian Clearline V30 compares favourably with the alternatives.



Type A:

Cover - low iron glass, Absorber - copper serpentine folded into aluminium sheet with plated selective coating, Insulation - mineral wool, Casing - stamped one-piece AlMg

Type B:

Cover - profile moulded acrylic, Absorber - selectively coated stainless steel, Insulation - polyurethane foam, Casing - jointed aluminium extrusion with aluminium back panel.