



VACATION RESORT BUCKLEY'S BUSH RETREAT



The island manager **SUNNY ISLAND 5048**

Broome, a popular holiday destination, is located in the northwest of Australia. With daily temperatures of over 35 degrees Celsius, an air humidity of over 60 percent and a very salty air, this region bears a challenge for most electronic devices – but not for the Sunny Island 5048.

In "Buckley's Bush Retreat", a small tourist region in the North of Broome, the off-grid system supplies besides a family home also three comfortably furnished cottages which are equipped with air conditioning, TV, kitchen, fridge and lighting. The excessive energy can be used to pump water from a source into a water supply tower.

The weather conditions in Broome allow a pure energy supply with photovoltaic at a solar irradiation of 1,880 kWh/kWp so that the diesel generator can be omitted in most cases. The advantages of Sunny Island supply are persuasive: the system operates so well that more and more Australians plan to have their energy supplied with SMA technology.

Plant size

- 5 kW nominal power stand-alone inverter
- 6 kWp installed PV power
- 1,280 Ah/48 V (C10) battery
- 10 kW diesel generator

Location

- Broome, Western Australia
- Operator: Buckley's Bush Retreat
- Planning and realization: Solar Sales, Perth
Walli's Electrical, Broome
- Commissioning: 2007

Annual yield

- approx. 11,300 kWh (1,880 kWh/kWp)
- approx. 16 tons reduction in CO₂

Inverter

- Sunny Island 5048
- Sunny Mini Central 6000A

Stand-alone grids simpler than ever