



#### DISCOVER PRODUCTS

- 12 x 48-48-5120  
AES RACKMOUNT Battery Modules
- 2 x AES RACKMOUNT Battery  
Module Combiners (950-0049)
- 14 x Quick Stack Racks (950-0050)

#### OTHER EQUIPMENT

- 3 x Outback Radian 8048A inverters
- 3 x Outback FM100 Charge  
Controllers
- 1 x Outback Mate3s controller
- 16.8 kW of solar panels
- 30 kW diesel generator

#### APPLICATION

Grid-tie with battery and solar, with  
generator backup

#### REQUIREMENT

Good, clean, uninterruptible power



#### OVERVIEW

##### AES RACKMOUNT 48-48-5120

Solar Freedom, experienced installers operating in the Bahamas, knew exactly what the owners of the “Goodness and Mercy” residential, vacation home in the Bahamas wanted in a power system when they were finally fed up with the sporadic and dirty power offered by the utility. Intermittent shut downs, grid instability, and extreme weather such as hurricanes that cause long-term power disruptions are a common occurrence in the Bahamas. All the owners wanted was clean, reliable power, in a location where that is a struggle.

The resulting solar and battery power system consists of 16.8 kW of solar panels, integrated with 3 Outback Radian 8048A inverters and 12 AES RACKMOUNT battery modules for 60 kWh of energy, with a 30 kW diesel generator as backup for when solar and battery are unavailable.

Now all the lights and appliances in the home work properly, and a connection to the grid isn't even required anymore.

