

# American Samoa power supply solar panel





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### Ta'u: An Island Using 100% Renewable Energy

The island of Ta'u in American Samoa once relied on diesel fuel to supply electricity. Residents experienced consistent power rationing and outages, and key services like hospitals and schools hinged on infrequent fuel ...

### Welcome to the island of Ta'u - (almost) entirely powered by solar panels

Tesla and SolarCity have announced they have (almost) entirely powered the small island of Ta'u in American Samoa with solar panels. Up to now, the island has had to depend on imported diesel to generate electricity.



51.2V 300AH

### USDA invests \$35.5M in American Samoa solar projects to deliver

2 · Also in American Samoa, Mana Solar LLC plans to use a \$23.5 million investment to develop a 13.4-megawatt community solar and battery energy storage system. This will provide power to approximately 2,500 households on Tutuila Island, meeting nearly 12% of their energy needs with renewable energy.



### Ta'u, American Samoa, Changed From Diesel to Solar Power ...

How a Pacific Island Changed From Diesel to 100% Solar Power. The island of Ta'u in American



Samoa now boasts a solar microgrid from Tesla's SolarCity.



### **Tau Island: From Diesel to 100% Solar Power**

In November, Tau Island celebrated the completion of a solar-powered microgrid, funded by the U.S. Department of Interior and the American Samoa Power Authority (ASPA), and installed by SolarCity--a subsidiary of Tesla. A ...

### **A South Pacific island now completely powered by Tesla solar panels**

In a project that took less than a year to develop and execute, an array of 5,328 solar panels and 60 Tesla Powerpacks were installed. Tesla and SolarCity created a 1.4 MW microgrid with a storage capacity of 6MWh, that can cover the island's power needs for 3 full days without sun.



### **This Island in American Samoa Is Almost 100% Powered by Tesla Solar Panels**

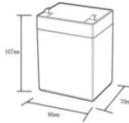


Tesla has announced their solar panels are nearly entirely powering the island of Ta'u in American Samoa. The island used to depend entirely on imported diesel fuel for its electricity, but a new initiative has seen the islanders build a 1.4-megawatt microgrid that absorbs and stores solar power for all their energy needs.



## Island In American Samoa Fully Powered By Solar

Ta'u, a small island in American Samoa, now gathers enough solar energy for 24/7 power, thanks to a microgrid project completed in November with solar provider SolarCity and Tesla. The system, operated by American Samoa Power Authority, comprises 5,000 SolarCity solar panels and 60 Tesla Powerpack battery-storage systems.

12.8V6Ah

- Nominal voltage (V):12.8
- Nominal capacity (Ah):6
- Rated energy (Wh):76.8
- Maximum charging voltage (V):14.6
- Maximum charging current (A):6
- Floating charge voltage (V):13.6-13.8
- Maximum continuous discharge current (A):10
- Maximum peak discharge current @10 seconds (A):20
- Maximum load power (W):100
- Discharge cut-off voltage (V):10.8
- Charging temperature (°C):0-+50
- Discharge temperature (°C):-20-+60
- Working humidity: <95% RH (non condensing)
- Number of cycles (25 °C, 0.5C, 100%DoD): >2000
- Cell combination mode: 32700-4s1p
- Terminal specification: T2 (6.3mm)
- Protection grade: IP65
- Overall dimension (mm):50\*70\*107mm
- Reference weight (kg):0.7
- Certification: un38.3/muds



## Tau Island: From Diesel to 100% Solar Power

In November, Tau Island celebrated the completion of a solar-powered microgrid, funded by the U.S. Department of Interior and the American Samoa Power Authority (ASPA), and installed by SolarCity--a subsidiary of Tesla. A Technological Marvel

## SolarCity and Tesla: Ta'u Microgrid

The island of Ta'u in American Samoa, located more than 4,000 miles from the West Coast of the United States, now hosts a solar power and battery storage-enabled microgrid that can supply nearly 100 percent of the island's power needs from renewable energy.



## Ta'u: An Island Using 100% Renewable Energy

The island of Ta'u in American Samoa once relied on diesel fuel to supply electricity. Residents experienced consistent power rationing and outages, and key services like hospitals and schools hinged on infrequent fuel imports.[1]



## HOW A PACIFIC ISLAND CHANGED FROM DIESEL TO 100% SOLAR POWER

The solar project was installed by SolarCity, a California-based company recently purchased by Elon Musk's Tesla. The \$8 million project was funded by the U.S. Department of Interior and the American Samoa Power Authority (ASPA).



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