

Leading Solar Technology

Solar Designing

About Us



Pioneers In Solar Energy Storage & Management

- Company founded by Walter Ellard in 2016
- Considered a **visionary** in electric industry
- Developed groundbreaking lithium iron phosphate battery using graphite and sodium
- Invented innovative battery management system to extend battery performance and life of batteries
- In 2008, after 32 years in commercial electric contracting, **he set his eye on battery technology**
- Since that time SunFusion has sold about 4,000 battery back-up systems, and under his California contractor license, about 300 solar battery systems.



Battery and inverter enclosure supporting a 24 panel 9kW system





What We Do

We Design Solar Systems with Battery Back-up

- Homeowners
- Businesses
- Remote Power (off-grid)
- Cellular Sites
- Governments





Systems for Homes

Solar Battery Choices

- Emergency Use Only
- Reduce On-Peak Periods
- Whole Home
- Whole Home w/EV
- ADU w/Non-Battery Option





System Schematic





Key Components*



Panels: Q Cells Q. Peak Duo

- High wattage
- Sleak all-black
- 400 w rating
- 25 Year warranty

Control: Guardian > E2.0 Inverter & System Mgt. System

- Manages system
- Expandable
- Fire-encased storage
- 240V/208V and 408V
- 24/7 off-grid capability
- 25 Year warranty

SunFusion

Guardian E2.0

Battery/Inverter/Mgt. SunFusion Guardian E2.0

- 42kWh, 15kWh, 30kWh
- Lithium-Iron Phosphate
- AC-DC Generator
- Sustained power output
- 90% @ year 10
- 25 Year warranty



Features & Benefits

Solar Emergency



Critical Functions Stay On

Energy Generation

High-efficiency solar panels

Generate your own power

Lower your utility bill

Rate hike protection

25-year equipment warranty

Industry leading inverters

Energy monitoring application







Eliminate On-peak hours

 \checkmark

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Solar Whole Home +



Your Own Electric Power Plant

 $\langle \checkmark \rangle$

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Energy Storage

Features & Benefits

Solar Emergency



Enough Battery Life for a Day

Lithium-iron phosphate batteries Smart power management Lower your utility bill Store excess solar power Utility black out protection Back-up critical loads 24/7 off-grid capability

Maximum savings/protection

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63

Solar On-Peak Reduction



 \checkmark

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Solar Whole Home +



100% Battery Life for Days







Features & Benefits

Solar Emergency



Less Than One Day Installation

System Installation

Full turn-key service Detailed system design All permits/utility approvals

Full project management

Workmanship warranty

SunFusion lifetime support



Solar On-Peak Reduction



2-Day Installation & Training

 $\langle \checkmark \rangle$

 \checkmark

Solar Whole Home +



2-Day Installation & Training





Technical Specs. vs. Competition

Solar Manufacturers	Battery Product Intro. Yr	Battery kWh Offered	Replace in Field	Number of cycles to hitting once @ 20% SOC	Max kW Output per Modules	Max Continuous Power	Est. Price per kWh Storage w/Inverter	Weight in Ibs	Warranty Cycles	Use of System if grid down
	2015	28	Yes			15kW peak, 12kW continuous 60 amps @240V at peak	\$900	665		
SunFusion	2023	42	Yes	10,000 @ 100% DOD	11.5 Continuous	48kW peak, 15kW continuous125 amps @240V at peak	\$894	1250	25 yrs (not	Vos
	2024	56	Yes	20,000 @70% DOD	peak)	36kW peak, 30kW continuous 180 amps @208V at peak	\$835	1750	16,000 cycles	res
	2024	100	Yes			72kW peak, 60kW continuous 180 amps @480v at peak	\$975	1790		
Tesla	2023	13.5	Send in. Replaced in 1-3 months	4,000 @ 80% DOD	11.5 Continuous / 106 LRA PW2 / 150 LRA PW3	7.6kW w/sun, no sun 5kWcontinuous 31.6 at peak	1010	340.9	10 years, 15,000 cycles	No
Sonnen	2020	30	Send in. Replaced in 3 -6 months	2kWh w/100% DOD @ 80% DOD	7kW Continuous / 8kW peak	8kW peak. 7kW continuous 33.3 amps	1200	1253	15 years, 15,000 cycles	No
Franklin	2022	13.6	Send in. Replaced in 7-20 days	3,942 @ 80% DOD		10kW peak. 5kW continuous 23 amps	1100	408	12 years, 6,000 cycles	No
Enphase	2020	11.4	Send in Replaced in 7-20 days	4,000 @ 70% DOD		280W peak. 270W continuous 16 amps	1710	154.7	10 years, 4,000 cycles	No



Top 10 Features of the New Guardian 2.0E Battery System

- 1. Advanced battery mgt. boasts high storage capacity
- 2. Minimal losses in charging & discharging modes
- 3. Remote monitoring of battery cells to insure optimum performance
- 4. System easily scalable for adding solar panels and batteries
- 5. Battery service and exchanges can be handled at field level
- 6. Lithium Iron Phosphate (LiFePO4) batteries cost less vs. nickel/cobalt
- 7. Discharge cycles deliver nearly 5 times the battery life vs others
- 8. Fire rating at 1125°F for each battery module (surpasses industry standards)
- 9. Long life span with projected 16,000 battery cycles over 25-years
- 10. Users can prioritize times to access grid for importing or exporting power.

Features & Benefits





Electricity NOT Getting Cheaper

Amount Paid Over Next 25 yrs w/o Solar

- Time-of-Use Rates (4 pm 9 pm)
 = >\$0.64/kWh
- NEM 3 utility export rates for solar lowered to about \$0.05/kWh (avg.) from a 1:1 NEM 2 rate (\$0.30 to \$0.50)
- Good idea to export to grid in peak hours of peak months (see Schedule next cell)
- Good idea to draw from grid when rates low.

Year	Current Monthly Bill (\$)	Annual % Increase per Year	Amortized Period (25 Years)	Total Expenditure (25 Years)
2023	236 250 275 300 375 400 450 500 550 600 650 700	7	25	\$96,924 102,720 112,992 123,264 154,080 164,352 184,896 205,440 225,984 246,528 267,072 287,616
	/00			207,010

* Formula: Your monthly bill (\$236) x 12 months x 34.24 = \$96,924 over next 25 years



NEM 3 Solar Export Rates

Utility Export Energy Payments per kWh



 On a few days rates paid = \$3.74/kWh Average for November to May = \$0.03/kWh



Resi GM SDG&E Winter Weekday 2024 ECR Comparison

• On a many days rates paid = 0.0001/kWh Average from Nov. to May = \$0.045/kWh



Site Survey

- Roof in good condition
- Breaker box adequate
- Locating best roof(s) for panels, or ground-racks
- Locating azimuth (SE to SW)
- Locating best angle 20° to 35°
- Shading Report (by 3rd party)

Design Solar Battery System





What Type of System Needed

Amount of Energy to Generate

= To handle on-peak

70% of daily demand

- Emergency Use = About 2 to 3 solar panels*
- Reduce On-Peak (4 pm to 9 pm)
- Whole Home = 100% of daily usage
- Whole Home w/EV = Daily usage + electric vehicle
- ADU w/Battery or Non-Battery Option
- = From 4 to about 6 panels (Three ADU sizes: 400 sf, 600 sf and 120 sf)



* Shading will increase system size tof above options to make up for lost solar generation



Calculate Total Solar Output

Sizing The System

- Calculate your average annual electric usage in kWh
- Divide the solar panel output into total electric usage in kWh for number of panels
- Determine the solar panel output for your location and multiply by 5 hours (avg. per day annually)
- Calculate the battery storage based on total kWh and highest daily electricity draw – plus additional for an electric car or other appliances.





Calculate Your Usage

Numbers to Consider

Today No Solar

Implied Historical Energy Rate per kWh	\$0.43	
Estimated Monthly kWh	550	
Monthly Utility Bill	\$236	550kWh/mo

Solar Battery System/Grid Tied

Total Purchase Cost		\$22,770
Monthly Connect fee Monthly Finance Cost Keep 30% solar tax credit or reduce principle.	15 \$168	700 kWh 5.8kW (max load)
Total Cost per Month	\$183	





Solar Permitting Criteria

Project Description

- Roof solar panel locations
- Electrical meter approved
- Wire sizing
- Exact location of inverter and battery & mgt. system
- Engineering draft and final design for City/County permit





Solar Permitting Criteria

Project Schematic

- Plot plan, design and line diagram of electrical
- Plans submitted to HOA if applicable
- Sometimes a few days for final approval depending on City or County process and work-load
- Any issues with latter resolved.





Solar Panel & Battery Installation

Project Almost Ready

- System installation takes typically two days
- First day, installation of roof mounts and panels
- Day two, tie-in battery/inverter/mgt. system at the home breaker
- Call for City or County inspection





Solar Panel & Battery Installation

Final Inspection



schedules a home visit

- Checks installation
- Turns system on and connects to electricity grid
- You are ready to use your own solar power!







Coverage Details

- Coverage for all parts supplied and installed by SunFusion
 - Solar panels (as per manufacturer)
 - Racking or support system
 - Batteries, Inverter and Mgt. system 25 years from SunFusion
- All labor included
- Active monitoring component reports in real time for fast response
- Transferable warranty (if you move), protects the value of your home







synchrony[™]

- Instant Credit Approval for Qualified Applicants
- Minimal Documentation
- Integration with Agreement
- Low rates: 4.99% to 9.99%





Licensed C10 – Electrical Contractor

California License No.: 1053778





Liability insurance

\$2,000,000 general coverage

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On-Line Referrals

Mostly 5 Star Ratings







Asset Cost Recovery

Increased Home Value

According to Zillow study:

4.1% increase in home value with a rooftop PV solar system (without battery back-up component).

Home value before solar: \$860k Home value after adding solar: \$895k

7.2% increase in home value with a rooftop solar system & 100% battery back-up

Home value before solar: \$860k Home value after adding solar: \$922k





Why SunFusion?

Key Features Reminder

- Never have to pay for electricity for next 25+ years (with over 100% solar coverage with batteries)
- Only pay \$15/month for access to SDG&E
- Increases value of home immediately by 7.2%
- Virtually zero maintenance
- Best warranty in the solar industry. (25 years*)
- Superior battery type to last in excess of 25 years
- Solar panels with high watt output (400DC, 320AC)
- Remote mgt. keeps critical performance in check
- In-field parts replace (no sending in)
- System highly scalable for panels and batteries
- Set timers to export power when grid rates high



* Except for power purchase agreements (PPA)



Thank You for Your Attention We Are Ready to Serve You!