



Marine Solar Power Solutions for Yachts

Empowering Marine Journeys with Clean Energy

Aesthetic · Efficient · Integrated





About Us

Sungold Solar – Professional Solar Panel Manufacturer Since 2008

Innovation Guaranteed

100+ patents & TUV/CE certifications ensure extreme durability.

Grow Without Limits

Scale freely with low MOQs and 30-day bulk production.



Brand Your Way

From custom logos to panel specifications, we deliver your brand identity in 20 days.

Sustainable Savings

Lean production cuts 25%+ costs with zero waste.



Why Solar Panels on Yachts?

Solar integration provides a scalable and low-maintenance power solution aligned with the operational needs of modern yachts.



Solar Energy: A Smarter Power Source for Yachts

Extend cruising time without relying on generators	Quiet,eco-friendly power source at sea	Power essential systems: navigation, lighting, refrigeration, communication	Ideal for off-grid energy independence	Easy installation on curved or limited surfaces
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Typical Solar Energy Applications on Yachts



**Refrigerators &
Freezers**

01



**GPS / Radar /
Navigation
Systems**

02



**Lighting &
Communication
Equipment**

03



**Mobile devices and
entertainment
systems**

04



**Utility & Safety
Systems**

05

Solar panels on yachts primarily support essential navigation, refrigeration, lighting, and communication systems, ensuring continuous operation and energy independence while at sea.



Pain Points and How We Solve Them



Pain Point

- Limited & Curved Installation Space.



Sungold Solution

- ✓ Sungold's lightweight and flexible solar panels (e.g., TF series) can bend to fit curved yacht surfaces, ensuring easy integration without structural modification.



Pain Points and How We Solve Them



Pain Point

- Harsh marine environment causing corrosion and degradation.



Sungold Solution

- ✓ Sungold panels use ETFE coating and IP68 waterproof junction boxes, ensuring high resistance to salt, moisture, and UV exposure.

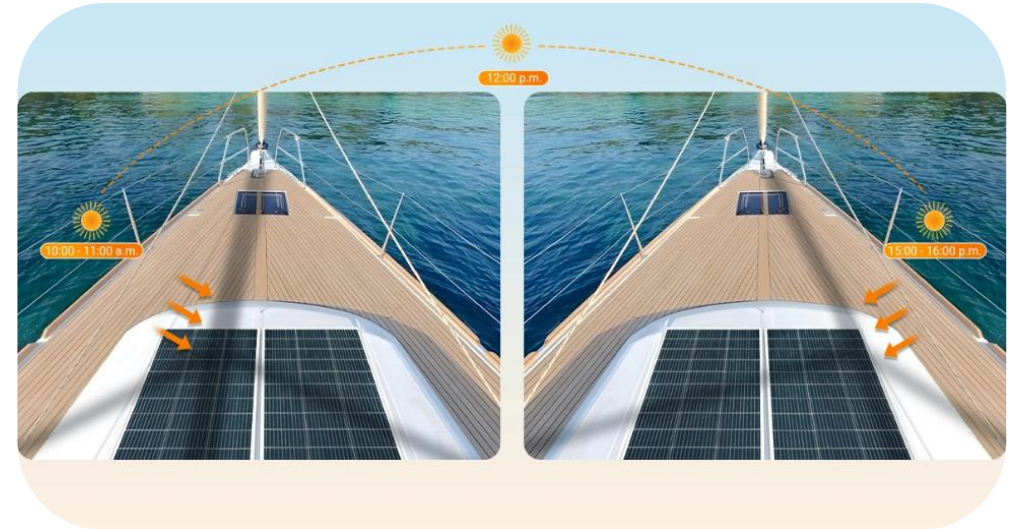


Pain Points and How We Solve Them



Pain Point

- Partial shading from masts and onboard equipment reduces output



Sungold Solution

- ✓ Sungold panels feature parallel cell configurations and enhanced bypass diode design, maintaining energy output even under partial shading.



Pain Points and How We Solve Them



Pain Point

- Electrical integration with yacht systems is complex.



Sungold Solution

- ✓ Sungold offers system matching guidance, fully compatible with popular MPPT controllers , ensuring safe and efficient charging.



Pain Points and How We Solve Them



Pain Point

- Foot traffic on deck can cause microcracks and reduce panel efficiency.



Sungold Solution

- ✓ Reinforced, anti-slip surface and optimized installation to withstand limited foot load.



Pain Points and How We Solve Them



Pain Point

- Users demand non-invasive, aesthetic and maintainable mounting



Sungold Solution

- ✓ Sungold supports multiple mounting options including 3M adhesive, marine-grade silicone, and custom fittings — all designed for fast, secure, and clean installations.



Project Case Study

Electrical data calculated in STC

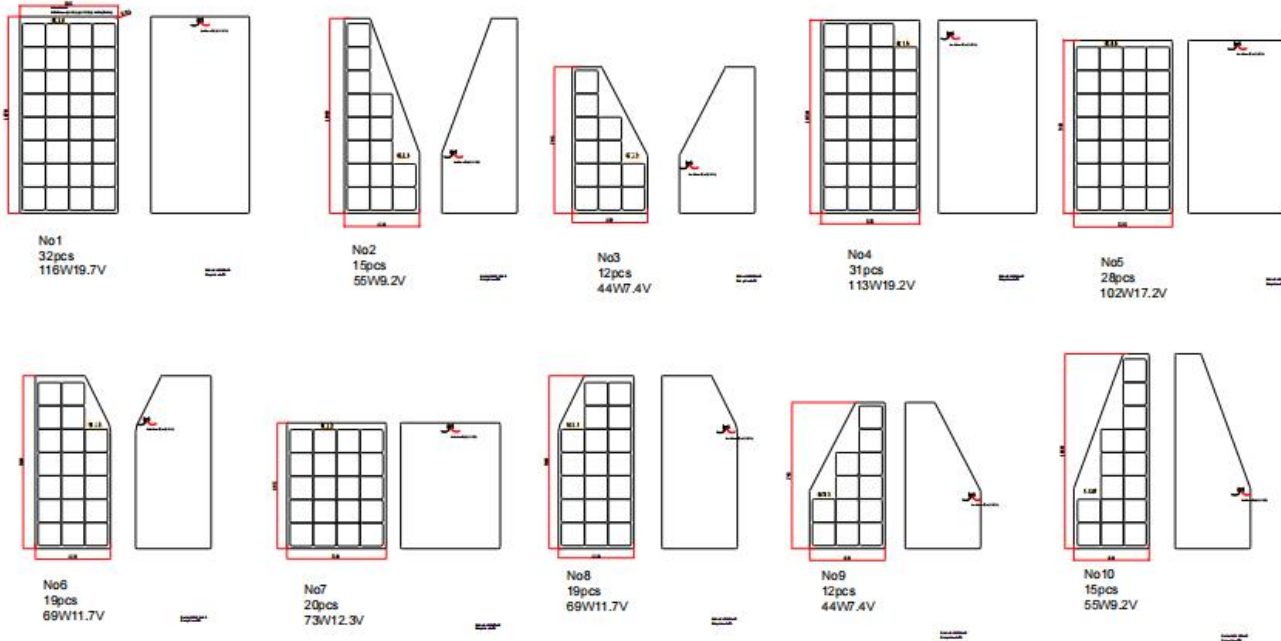
	System	MPPT	PV cells	Rated power [W]	Voc [V]	Isc [A]	Vmp [V]	Imp [A]
system 1	MPPT 1 (2xSP32,1xSP48, in series) & (2xSP32, 1xSP48 in series) in parallel	Victron smart solar 100/15	224	814.8	81.088	12.5187	68.992	11.810
system 2	MPPT 2 (2xSP32,1xSP15,1xSP12, in series) & (2xSP32,1xSP15,1xSP12, in series) in parallel	Victron smart solar 100/5	182	662.025	65.884	12.5187	56.056	11.810
system 3	MPPT 3 (1xSP31,1xSP28,1xSP19,1xSP20, in series) & (1xSP31,1xSP28,1xSP19,1xSP20 in series) in parallel	Victron smart solar 100/30	196	712.95	70.952	12.5187	60.368	11.810

All cables routed from the back of the panels — no visible surface wiring, ensuring clean design and waterproof integrity.

Wiring and bracket pathways are pre-engineered for fast installation and ease of maintenance.



Tailored Solar Solutions for Yachts



Sungold provides customized marine solar solutions, including triangular and irregular-shaped panels precisely designed to fit unique yacht deck areas, ensuring optimal efficiency and durability.

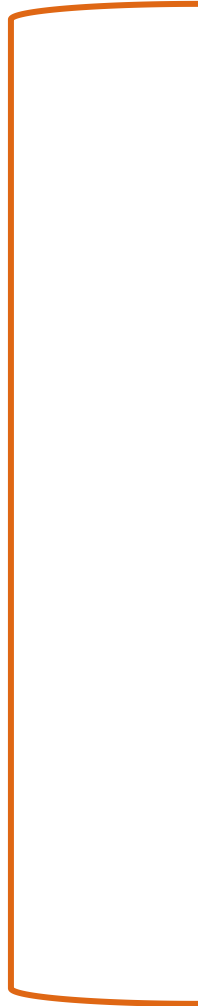


Real installation case



Mounting Options & Real-World Deployment

3
main
mounting
options



Eyelet & Screw Mounting

Best for secure fixation on deck areas requiring durability;

Uses stainless screws and aluminum backing for corrosion resistance and high-sea conditions;

3M Adhesive Tape Mounting

Industrial-grade double-sided tape pre-applied for quick and clean installation;

Ideal for smooth fiberglass or composite surfaces — no drilling required;



Silicone Adhesive Mounting

Neutral silicone applied over the rear surface for strong bonding and sealing;

Suitable for non-perforated areas; waterproof and UV resistant;



Why Sungold Solar for Marine Applications?

Sungold PA621



Ultra-lightweight and thin flexible design

Corrosion-resistant, UV-protected surface

Waterproof and salt-mist-resistant (IP68 rating)

Easy to install: adhesive, screw, or magnetic options

High-efficiency cells (up to 23%) with long lifespan

Custom shapes and sizes available for yacht surfaces



More Sungold Solar Panels for Yacht Use

Model	SGSP 120W	SG-TF-S-120W	SG-TF-M2-140W	SG-PA621-140W	PA219-200W
Cell Efficiency	>24.4%	>24.4%	>22.70%	>22.70%	≥25.0%
Max Power Voltage	23.3v	19.8V	23.2V	23.2V	28.7V
Max Power Current	6.07A	6.07A	6.03A	6.03A	6.20A
Open Circuit Voltage	19.8v	23.3V	27.1V	27.1V	25.4V
Short Circuit Current	6.42A	6.42A	6.33A	6.33A	5.91A
Cell type	SunPower	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline
Weight	6.51KG	2.51KG	2.70KG	4.75KG	2.6kg
Product Size	1060*540*35mm	1070*540*3mm	1020*765*3mm	1133*807*12mm	890*595*3mm
The maximum system voltage	1000V DC	200V DC	600V DC	1000V DC	1500V DC
Color	White	White	White	White	White



End-to-End Off-Grid Solar Solutions

Sungold has a professional service team that can design off-grid solar solutions tailored to your business needs, from sample testing production and transportation to installation and maintenance, providing one-stop service for your project requirements.



Solar Customizer for SMEs

Energy Tailored, Future Empowered



CE, RoHS, ISO, FC, and other certification icons.

Solar Customizer for SMEs

ENERGY TAILORED, FUTURE EMPOWERED

2008 Manufacturer Since	10,000m² Factory Area	300+ Employees	1,000MW Global Shipments
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Sungold is committed to becoming a specialized expert in energy brand customization for small and medium enterprises, focusing on delivering tailored solar energy branding solutions.

Leveraging the advantages of flexible and efficient small-batch customization services, we empower businesses to create distinctive, independent brand identities.



Energy Tailored, Future Empowered

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