Solavita

Solavita | SKYWORTH
A SKYWORTH Company | 00751.HK

# Skyworth Group

## 2 Listed Company

Skyworth Group **(00751.HK)**

Skyworth Digital **(000810.SZ)**

Skyworth Group, founded in 1988, is a globally competitive smart home appliances and information technology backbone enterprise ranking 351th in **[Top 500 Chinese Enterprises in 2024].**

Skyworth specializes in four key domains: new energy, smart household appliances, intelligent system technology, modern service & others.

**30,000+**

Employees (2023)

**120+**

Countries and Regions

**9.587+**

Billion USD (2023)

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# Milestone of Skyworth Photovaltic

Established in 2020, Skyworth embarked on a mission to pioneer the Zero Carbon Smart Life initiative through the implementation of the "Skyworth PV and Solavita Dual Brand Strategy".

2020.01

## Set Sail

The business model "One-stop Solar Solution" has been established and solidified, alongside the implementation of a dual-brand strategy

2021.12

## Development

Revenue reached $5.76 billion, marking a remarkable 3,843.3% increase from the previous year

2022.12

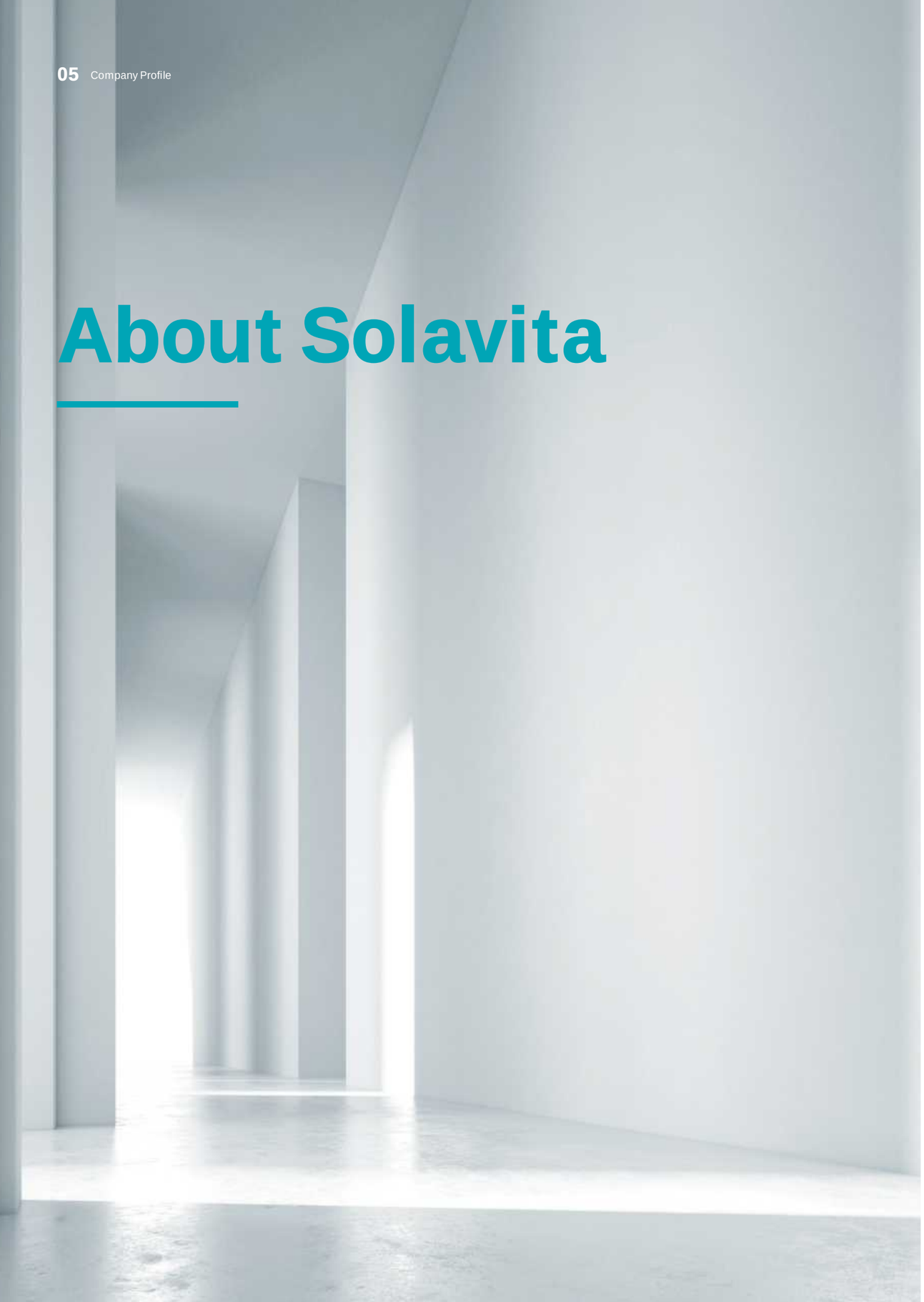
## Breakthrough

Introduced 4 customized products tailored to diverse user needs, driving revenue growth to $16.71 billion—a 191% increase compared to 2021

2024

## Expansion

20GW installed capacity
600,000 PV power stations installed



# About Solavita



Solavita, the cutting-edge PV brand under Skyworth Group, is a global leader in providing comprehensive one-stop solar solutions. Comprehensive end-to-end services are provided, encompassing consulting, design, and product O&M, all supported by a portfolio of self-developed solutions. This includes high-efficiency solar panels, inverters, energy storage systems, and reliable mounting systems.

Leveraging Skyworth's legacy of innovation and quality control, Solavita delivers solutions that are efficient, reliable, and of the highest quality. Solavita's commitment to originality and excellence has earned us recognition in international markets such as Germany, Italy, the UK, Brazil, and Senegal.

**200+**
**Technical R&D team**

**1,000+**
**Project team**

**4,500+**
**Operation and service team**

# Core Business Models

As a leading global renewable energy developer, service provider and energy solutions provider, Solavtia is actively shaping the future of energy. With a strong presence in EPC services and one-stop product solutions, Solavita delivers high-quality, reliable, and innovative energy solutions. Solavita's commitment to originality and excellence has earned widespread recognition in international markets such as Germany, Italy, the UK, Brazil, and Senegal.

## Technology-Embedded EPC Services

Solavita delivers end-to-end Engineering, Procurement, and Construction (EPC) solutions, encompass the entire lifecycle project from conception through completion, ensure seamless project execution.

### Construction Mastery

Turnkey installation | Real-time progress tracking
Zero-safety-incident record | Professional Team
Systematic construction process

### Smart Procurement

Global supplier network | Fast delivery
Tier-1 component selection | Inventory management
Cost-competitive equipment sourcing

### Engineering Precision

Site feasibility analysis | AI-powered system design
Grid compliance & permitting | Customized system design

### Financial Service

Free Equipment | Solar Revenue
Solar Project investment

## Platform-Based Product Solution

As one of only few manufacturers globally mastering the full-chain R&D of solar+storage systems, Solavita's self-developed products covers:

### PV Modules

High Efficiency
High Reliability
High ROI
Low Degradation
Low Risk of Hot Spot

### Inverters

High Efficiency
IP65/66 Protection Rate
Modular Design
AC and DC Surge Protection

### Mounting Systems

Easy installation
Stable structure
Environmental Friendly
Long Lifespan

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# Solavita
# SMART R&D

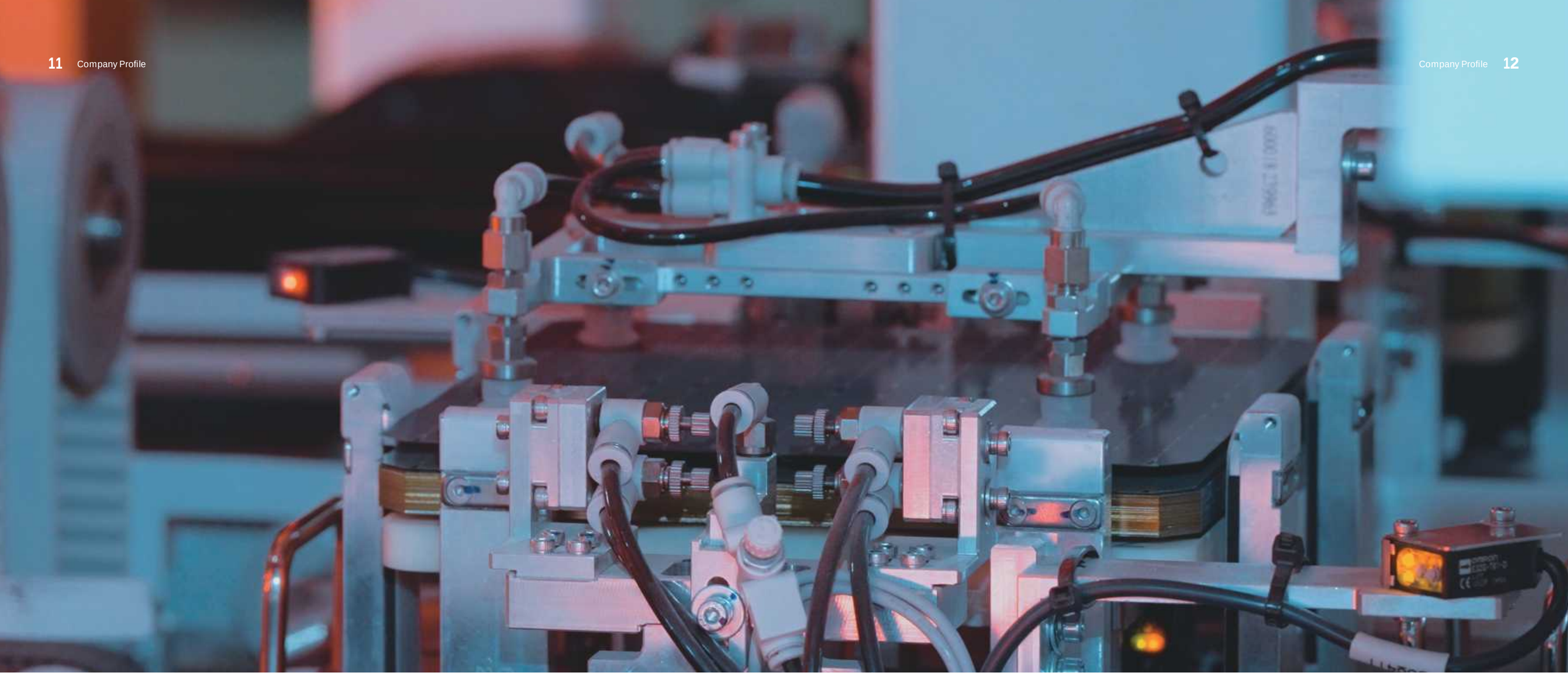
Solavita brings together experienced experts and industry scholars, establishing a three-level technical team led by industry pioneers and supported by researchers with deep R&D expertise.

**200+** **Talent team members**

**100+** **Technology Patents**

**20+ Years** **Solar Industry Experience**





# Solavita Quality Manufacturing

AI is leveraged to enhance the production of solar panels, inverters, and energy storage systems, strengthening product competitiveness and providing a comprehensive one-stop solution.

**6GW**
Inverters

**3GWh**
Energy Storegy System

**5GW**
Module

**500,000 tons**
Mounting System

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# Solavita Global Presence


**41** → Global Branches

**19** → Manufacturing Bases

**15** → R&D Centers

**30** → Regions & Countries

With a comprehensive global network, Skyworth's robust infrastructure empowers Solavita to deliver localized expertise, efficient supply chains, and pioneering renewable energy technologies tailored to diverse markets.


# On-grid Inverter

Single Phase On-grid Inverter

Three Phase On-grid Inverter

## Single-phase On-grid Inverter

# SV1/1.5/2 /2.5/3/3.3 kW

SV1000TL-S1-AM11 SV1500TL-S1-AM11
SV2000TL-S1-AM11 SV2500TL-S1-AM11
SV3000TL-S1-AM11 SV3300TL-S1-AM11


- Small and light, easy to install
- Stylish appearance
- IP66 rated for outdoor use
- Flexible optional monitoring modes



| Model | SV1000TL-S1-AM11 | SV1500TL-S1-AM11 | SV2000TL-S1-AM11 | SV2500TL-S1-AM11 | SV3000TL-S1-AM11 | SV3300TL-S1-AM11 |
|---|---|---|---|---|---|---|
| **DC Input** | | | | | | |
| Max. Input Power [W] | 1500 | 2250 | 3000 | 3750 | 4500 | 4950 |
| Max. Input Voltage [V] | 550 | | | | | |
| MPPT Voltage Range [V] | 60-520 | | | | | |
| Rated Voltage [V] | 360 | | | | | |
| Start-up Voltage [V] | 70 | | | | | |
| No. of MPPT Trackers | 1 | | | | | |
| No. of PV Strings per MPPT | 1 | | | | | |
| Max. Input Current per MPPT [A] | 16 | | | | | |
| Max. Short Circuit Current per MPPT [A] | 20 | | | | | |
| **AC Output** | | | | | | |
| Rated Output Power [W] | 1000 | 1500 | 2000 | 2500 | 3000 | 3300 |
| Max. Output Appearent Power [VA] | 1100 | 1650 | 2200 | 2750 | 3300 | 3630 |
| Max. Output Current [A] | 5 | 7.5 | 10 | 12.5 | 15 | 16.5 |
| Rated Grid Voltage [V] | L/N/PE, 220/230/240 | | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | | |
| Power Factor [cos ϕ] | 1(+/-0.8, adjustable) | | | | | |
| **Efficiency** | | | | | | |
| Max. Efficiency | 97.4% | | | | | |
| EU Efficiency | 96.9% | | | | | |
| **Protection** | | | | | | |
| DC Switch | Integrated | | | | | |
| Insulation Resistance Monitoring | Integrated | | | | | |
| Input Reverse Polarity Protection | Integrated | | | | | |
| Anti-island Protection | Integrated | | | | | |
| Residual Current Monitoring | Integrated | | | | | |
| AC Overcurrent Protection | Integrated | | | | | |
| AC Short-Circuit Protection | Integrated | | | | | |
| DC Surge Protection | Integrated (Type II) | | | | | |
| AC Surge Protection | Integrated (Type II) | | | | | |
| 24-hour load monitoring | Optional | | | | | |
| AFCI | Optional | | | | | |
| **General Data** | | | | | | |
| Dimensions (W*H*D) [mm] | 346*350*122 | | | | | |
| Weight [kg] | 9 | | | | | |
| Display | LED+LCD/ Bluetooth+App | | | | | |
| Communication | RS485/WiFi/LAN/4G (Optional) | | | | | |
| Operating Temperature Range [℃] | -30~+60 | | | | | |
| Relative Humidity | 0~100% | | | | | |
| Operation Altitude [m] | ≤4000(if >2000 derating) | | | | | |
| Topology | Transformerless | | | | | |
| Type of Cooling | Natural Cooling | | | | | |
| Ingress Protection | IP66 | | | | | |

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## Single-phase On-grid Inverter

# SW3.6/4/4.6/5/6 kW

SW3680TL-S1 SW4000TL-S1
SW4600TL-S1 SW5000TL-S1
SW6000TL-S1


- Aesthetically designed, compact and lightweight appearance
- Fanless design for low noise
- 2 MPPT Two MPPT trackers for more flexible configuration
- 1.1 X 110% overloading



| Model | SW3680TL-S1 | SW4000TL-S1 | SW4600TL-S1 | SW5000TL-S1 | SW6000TL-S1 |
|---|---|---|---|---|---|
| **DC Input** | | | | | |
| Max. Input Power [W] | 5520 | 6000 | 6900 | 7500 | 9000 |
| Max. Input Voltage [V] | 550 | | | | |
| MPPT Voltage Range [V] | 60-520 | | | | |
| Rated Voltage [V] | 360 | | | | |
| Start-up Voltage [V] | 70 | | | | |
| No. of MPPT Trackers | 2 | | | | |
| No. of PV Strings per MPPT | 1 | | | | |
| Max. Input Current per MPPT [A] | 16/16 | | | | |
| Max. Short Circuit Current per MPPT [A] | 20/20 | | | | |
| **AC Output** | | | | | |
| Rated Output Power [W] | 3680 | 4000 | 4600 | 5000 | 6000 |
| Max. Output Appearent Power [VA] | 4048 | 4400 | 5060 | 5500 | 6600 |
| Max. Output Current [A] | 18.4 | 20 | 23 | 25 | 30 |
| Rated Grid Voltage [V] | L/N/PE, 220/230/240 | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | |
| Power Factor [cos ϕ] | 1(+/-0.8, adjustable) | | | | |
| **Efficiency** | | | | | |
| Max. Efficiency | 97.9% | | | | |
| EU Efficiency | 97.2% | | | | |
| **Protection** | | | | | |
| DC Switch | Integrated | | | | |
| Insulation Resistance Monitoring | Integrated | | | | |
| Input Reverse Polarity Protection | Integrated | | | | |
| Anti-island Protection | Integrated | | | | |
| Residual Current Monitoring | Integrated | | | | |
| AC Overcurrent Protection | Integrated | | | | |
| AC Short-Circuit Protection | Integrated | | | | |
| DC Surge Protection | Integrated (Type II) | | | | |
| AC Surge Protection | Integrated (Type II) | | | | |
| IV Curve scanning | Integrated | | | | |
| 24-hour load monitoring | Optional | | | | |
| AFCI | Optional | | | | |
| **General Data** | | | | | |
| Dimensions (W*H*D) [mm] | 420*370*133 | | | | |
| Weight [kg] | 11 | | | | |
| Display | LED+LCD/ Bluetooth+App | | | | |
| Communication | RS485/WiFi/LAN/4G (Optional) | | | | |
| Operating Temperature Range [℃] | -30~+60 | | | | |
| Relative Humidity | 0~100% | | | | |
| Operation Altitude [m] | ≤4000(if >2000 derating) | | | | |
| Topology | Transformerless | | | | |
| Type of Cooling | Natural cooling | | | | |
| Ingress Protection | IP66 | | | | |

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## Single-phase On-grid Inverter

# SV7/8/9/10 kW

SV7000TL-S1-CM33 SV8000TL-S1-CM33
SV9000TL-S1-CM33 SV010KTL-S1-CM33


- 98% Aesthetically designed, compact and lightweight appearance
- AC\DC DC/AC Surge Protection: Type II
- Wide voltage range and low starup voltage
- 1.5 150% oversizing



| Model | SV7000TL-S1-CM33 | SV8000TL-S1-CM33 | SV9000TL-S1-CM33 | SV010KTL-S1-CM33 |
|---|---|---|---|---|
| **DC Input** | | | | |
| Max. Input Power [W] | 10500 | 12000 | 13500 | 15000 |
| Max. Input Voltage [V] | 550 | | | |
| MPPT Voltage Range [V] | 60-520 | | | |
| Rated Voltage [V] | 360 | | | |
| Start-up Voltage [V] | 70 | | | |
| No. of MPPT Trackers | 3 | | | |
| No. of PV Strings per MPPT | 1 | | | |
| Max. Input Current per MPPT [A] | 16 | | | |
| Max. Short Circuit Current per MPPT [A] | 20 | | | |
| **AC Output** | | | | |
| Rated Output Power [W] | 7000 | 8000 | 9000 | 10000 |
| Max. Output Appearent Power [VA] | 7000 | 8000 | 9000 | 10000 |
| Max. Output Current [A] | 31.8 | 36.4 | 40.9 | 45.5 |
| Rated Grid Voltage [V] | L/N/PE, 220/230/240 | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | |
| Power Factor [cos ϕ] | 1(+/-0.8, adjustable) | | | |
| **Efficiency** | | | | |
| Max. Efficiency | 98.0% | | | |
| EU Efficiency | 97.5% | | | |
| **Protection** | | | | |
| DC Switch | Integrated | | | |
| Insulation Resistance Monitoring | Integrated | | | |
| Input Reverse Polarity Protection | Integrated | | | |
| Anti-island Protection | Integrated | | | |
| Residual Current Monitoring | Integrated | | | |
| AC Overcurrent Protection | Integrated | | | |
| AC Short-Circuit Protection | Integrated | | | |
| DC Surge Protection | Integrated (Type II) | | | |
| AC Surge Protection | Integrated (Type II) | | | |
| IV Curve scanning | Integrated | | | |
| 24-hour load monitoring | Optional | | | |
| AFCI | Optional | | | |
| **General Data** | | | | |
| Dimensions (W*H*D) [mm] | 446*400*161 | | | |
| Weight [kg] | 17 | | | |
| Display | LED+LCD/ Bluetooth+App | | | |
| Communication | RS485/WiFi/LAN/4G (Optional) | | | |
| Operating Temperature Range [℃] | -30~+60 | | | |
| Relative Humidity | 0~100% | | | |
| Operation Altitude [m] | ≤4000(if >2000 derating) | | | |
| Topology | Transformerless | | | |
| Type of Cooling | Natural cooling | | | |
| Ingress Protection | IP66 | | | |

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## Three-phase On-grid Inverer

# SV10/12/15 /17/20/25 kW

SV010KTL-T1-BM22 SV012KTL-T1-BM22
SV015KTL-T1-BM24 SV017KTL-T1-BM24
SV020KTL-T1-BM24 SV025KTL-T1-BM24


- DC/AC Surge Protection: Type II
- 150% oversizing
- Flexible optional monitoring modes
- 110% overloading



| Model | SV010KTL-T1-BM22 | SV012KTL-T1-BM22 | SV015KTL-T1-BM24 | SV017KTL-T1-BM24 | SV020KTL-T1-BM24 | SV025KTL-T1-BM24 |
|---|---|---|---|---|---|---|
| **DC Input** | | | | | | |
| Max. Input Power [W] | 15000 | 18000 | 22500 | 25500 | 30000 | 37500 |
| Max. Input Voltage [V] | 1100 | | | | | |
| MPPT Voltage Range [V] | 160-1000 | | | | | |
| Rated Input Voltage [V] | 600 | | | | | |
| Start-up Voltage [V] | 200 | | | | | |
| No. of MPPT Trackers | 2 | | | | | |
| No.of PV Strings per MPPT | 1 | 1 | 2 | 2 | 2 | 2 |
| Max. Input Current Per MPPT [A] | 20 | 20 | 40 | 40 | 40 | 40 |
| Max. Short Circuit Current Per MPPT [A] | 25 | 25 | 50 | 50 | 50 | 50 |
| **AC Output** | | | | | | |
| Rated Output Power [W] | 10000 | 12000 | 15000 | 17000 | 20000 | 25000 |
| Max. Output Appearent Power [VA] | 11000 | 13200 | 16500 | 18700 | 22000 | 27500 |
| Max. Output Current [A] | 15.9 | 19.1 | 25.1 | 27 | 32 | 40 |
| Rated Grid Voltage [V] | 3L/N/PE; 220/380, 230/400 | | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | | |
| Power Factor [cos ϕ] | 1 (+/-0.8, adjustable) | | | | | |
| **Efficiency** | | | | | | |
| Max. Efficiency | 98.6% | | | | | |
| EU Efficiency | 98.2% | | | | | |
| **Protection** | | | | | | |
| DC Switch | Integrated | | | | | |
| Insulation Resistance Monitoring | Integrated | | | | | |
| Input Reverse Polarity Protection | Integrated | | | | | |
| Anti-island Protection | Integrated | | | | | |
| Residual Current Monitoring | Integrated | | | | | |
| AC Overcurrent Protection | Integrated | | | | | |
| AC Short-Circuit Protection | Integrated | | | | | |
| DC Surge Protection | Integrated (Type II) | | | | | |
| AC Surge Protection | Integrated (Type II) | | | | | |
| **General Data** | | | | | | |
| Dimensions (W*H*D) [mm] | 405*375*213 | | | | | |
| Weight [kg] | 23 | | | | | |
| Display | LED/APP | | | | | |
| Communication | WiFi / RS485 / 4G (Optional) | | | | | |
| Operating Temperature Range [℃] | -25~+60 | | | | | |
| Relative Humidity | 0~100% | | | | | |
| Operation Altitude [m] | ≤4000 (>2000 derating) | | | | | |
| Topology | Transformerless | | | | | |
| Type of Cooling | Smart Fan-cooling | | | | | |
| Ingress protection | IP66 | | | | | |

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## Three Phase On-grid Inverter

# SV30/33 kW

SV030KTL-T1-DM35 SV030KTL-T1-DM36
SV033KTL-T1-DM36


- DC/AC Surge Protection: Type II
- 110% overloading
- Suppors remote frmware upgrades
- Wide voltage range and low starup voltage



| Model | SV030KTL-T1-DM35 | SV030KTL-T1-DM36 | SV033KTL-T1-DM36 |
|---|---|---|---|
| **DC Input** | | | |
| Max. Input Voltage [V] | 1100 | | |
| MPPT Voltage Range [V] | 160-1000 | | |
| Rated Input Voltage [V] | 600 | | |
| Start-up Voltage [V] | 200 | | |
| No. of MPPT Trackers | 3 | | |
| No.of PV Strings per MPPT | 2/1/2 | 2/2/2 | |
| Max. Input Current Per MPPT [A] | 40/20/40 | 40/40/40 | |
| Max. Short Circuit Current Per MPPT [A] | 50/30/50 | 50/50/50 | |
| **AC Output** | | | |
| Rated Output Power [W] | 30000 | 30000 | 33000 |
| Max. Output Appearent Power [VA] | 33000 | 33000 | 36300 |
| Max. Output Current [A] | 48 | 48 | 52.6 |
| Rated Grid Voltage [V] | 3L/N/PE; 220/380, 230/400 | | |
| Rated Grid Frequency [Hz] | 50/60 | | |
| Power Factor [cos ϕ] | 1 (+/-0.8, adjustable) | | |
| **Efficiency** | | | |
| Max. Efficiency | 98.6% | | |
| EU Efficiency | 98.2% | | |
| **Protection** | | | |
| DC Switch | Integrated | | |
| Insulation Resistance Monitoring | Integrated | | |
| Input Reverse Polarity Protection | Integrated | | |
| Anti-island Protection | Integrated | | |
| Residual Current Monitoring | Integrated | | |
| AC Overcurrent Protection | Integrated | | |
| AC Short-Circuit Protection | Integrated | | |
| DC Surge Protection | Integrated (Type II) | | |
| AC Surge Protection | Integrated (Type II) | | |
| **General Data** | | | |
| Dimensions (W*H*D) [mm] | 475*415*220 | | |
| Weight [kg] | 24 | | |
| Display | LED/APP | | |
| Communication | WiFi / RS485 / 4G (Optional) | | |
| Operating Temperature Range [℃] | -25~+60 | | |
| Relative Humidity | 0~100% | | |
| Operation Altitude [m] | ≤4000(>2000 derating) | | |
| Topology | Transformerless | | |
| Type of Cooling | Smart Fan-cooling | | |
| Ingress Protection | IP66 | | |

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## Three Phase On-grid Inverter

# SV40/50/60 kW

SV040KTL-T1-EM36 SV040KTL-T1-EM48
SV050KTL-T1-EM48 SV060KTL-T1-EM48


- 150% oversizing
- Compatible with 650W+ modules
- Optional PID recovery
- Optional DC Arc Protection



| Model | SV040KTL-T1-EM36 | SV040KTL-T1-EM48 | SV050KTL-T1-EM48 | SV060KTL-T1-EM48 |
|---|---|---|---|---|
| **DC Input** | | | | |
| Max. Input Power [W] | 60000 | 60000 | 75000 | 90000 |
| Max. Input Voltage [V] | 1100 | | | |
| MPPT Voltage Range [V] | 180-1000 | | | |
| Rated Input Voltage [V] | 600 | | | |
| Start-up Voltage [V] | 200 | | | |
| No. of MPPT Trackers | 3 | 4 | | |
| No.of PV Strings per MPPT | 2 | 2 | | |
| Max. Input Current per MPPT [A] | 40 | 40 | | |
| Max. Short Circuit Current Per MPPT [A] | 50 | 50 | | |
| **AC Output** | | | | |
| Rated Output Power [W] | 40000 | 40000 | 50000 | 60000 |
| Max. Output Appearent Power [VA] | 44000 | 44000 | 55000 | 66000 |
| Max. Output Current [A] | 66 | 66 | 83 | 100 |
| Rated Grid Voltage [V] | 3L/N/PE; 220/380, 230/400 | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | |
| Power Factor [cos ϕ] | 1 (+/-0.8, adjustable) | | | |
| **Efficiency** | | | | |
| Max. Efficiency | 98.8% | | | |
| EU Efficiency | 98.3% | | | |
| **Protection** | | | | |
| DC Switch | Integrated | | | |
| Insulation Resistance Monitoring | Integrated | | | |
| Input Reverse Polarity Protection | Integrated | | | |
| Anti-island Protection | Integrated | | | |
| Residual Current Monitoring | Integrated | | | |
| AC Overcurrent Protection | Integrated | | | |
| AC Short-circuit Protection | Integrated | | | |
| String Detection | Integrated | | | |
| DC Surge Protection | Integrated (Type II) | | | |
| AC Surge Protection | Integrated (Type II) | | | |
| AFCI | Optional | | | |
| IV Curve Scanning | Optional | | | |
| PID Recovery | Optional | | | |
| **General Data** | | | | |
| Dimensions (W*H*D) [mm] | 623*523*235 | | | |
| Weight [kg] | 35.9 | | | |
| Display | LED& Bluetooth+APP | | | |
| Communication | WiFi/LAN/RS485/4G (Optional) | | | |
| Operating Temperature Range [℃] | -30 ~ +60 | | | |
| Relative Humidity | 0~100% | | | |
| Operation Altitude [m] | ≤4000(>3000 derating) | | | |
| Topology | Transformerless | | | |
| Type of Cooling | Smart Fan-cooling | | | |
| Protection Class | IP66 | | | |

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# Hybrid Inverters

Single-phase Hybrid Inverter (high voltage)

Single-phase Hybrid Inverter (low voltage)

Three-phase Hybrid Inverter (high voltage)

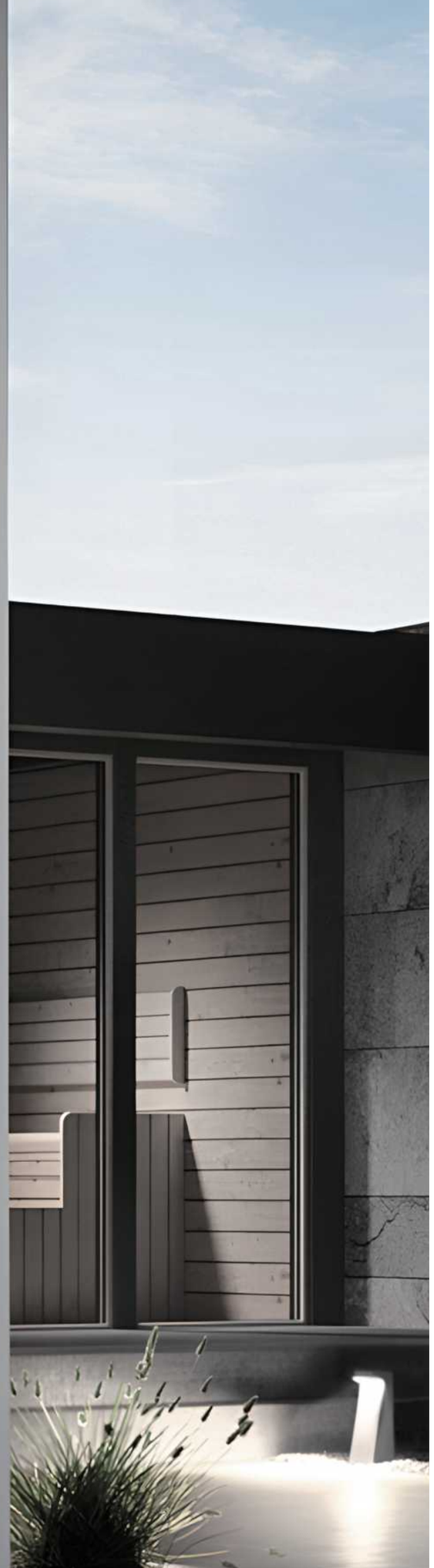
Communication Accessories

# Single-phase Hybrid Inverer (High Voltage)

## SWH3/4/5/6 kW

SWH3000H-S1 SWH4000H-S1
SWH5000H-S1 SWH6000H-S1


- 150% oversizing
- Switching time <10ms
- EU efciency up to 97%
- Fanless design, maintenance-free





| Model | SWH3000H-S1 | SWH4000H-S1 | SWH5000H-S1 | SWH6000H-S1 |
|---|---|---|---|---|
| **PV Input** | | | | |
| Recommended Max. PV Input Power [Wp] | 4500 | 6000 | 7500 | 9000 |
| Max. Input Voltage [V] | 600 | | | |
| MPPT Voltage Range [V] | 80-580 | | | |
| Rated Voltage [V] | 360 | | | |
| Start-up Voltage [V] | 90 | | | |
| No. of MPPT Trackers | 1 | 2 | 2 | 2 |
| No. of PV Strings per MPPT | 1 | 1/1 | 1/1 | 1/1 |
| Max. Input Current per MPPT [A] | 14 | 14/14 | 14/14 | 14/14 |
| Max. Short Circuit Current per MPPT [A] | 18 | 18/18 | 18/18 | 18/18 |
| **AC Output** | | | | |
| Rated Output Power [W] | 3000 | 4000 | 5000 | 6000 |
| Rated Output Current [A] | 13.6 | 18.2 | 22.7 | 27.3 |
| Max. Output Current [A] | 15 | 20 | 25 | 30 |
| Max. Apparent Output Power [VA] | 3300 | 4400 | 5500 | 6600 |
| Rated Output Voltage [V] | 220/230/240 | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | |
| Power Factor | 1(0.8leading~ 0.8lagging) | | | |
| THDi (Rated Output Power ) | < 3% | | | |
| **AC Input (Grid)** | | | | |
| Max. Apparent Input Power [VA] | 6000 | 8000 | 10000 | 12000 |
| Max. Input Current [A] | 27.3 | 36.4 | 45.5 | 54.5 |
| Rated Output Voltage [V] | 220/230/240 | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | |
| **Battery** | | | | |
| Battery Module Type | Lithium Iron Phosphate(LFP) | | | |
| Battery Voltage Range [V] | 80-450 | | | |
| Max. Charge/Discharge Current [A] | 25 | | | |
| Max. Charge Power [W] | 4500 | 6000 | 7500 | 9000 |
| Max Discharge Power [W] | 3000 | 4000 | 5000 | 6000 |
| Battery Communication | CAN/RS485 | | | |
| **AC Output (Off-grid)** | | | | |
| Rated Output Power [W] | 3000 | 4000 | 5000 | 6000 |
| Rated Output Voltage [V] | 220/230/240 | | | |
| Rated Output Frequency [Hz] | 50/60 | | | |
| Rated Output Current [A] | 13.6 | 18.2 | 22.7 | 27.3 |
| THDU (Rated Output Power, R Load) | < 3% | | | |
| Switch Time [ms] | 10 | | | |
| Peak Apparent Power , Duration [VA, s] | 4500,60 | 6000,60 | 7500,60 | 7500,60 |
| **Efficiency** | | | | |
| Max. Efficiency | 97.8% | | | |
| EU Efficiency | 97% | | | |
| Battery Charged/Discharged to AC Max. Efficiency | 98.5%@Charge/97.0%@Discharge | | | |
| **Protection** | | | | |
| DC Switch | Integrated | | | |
| Insulation Resistance Detection | Integrated | | | |
| Input Reverse Polarity Protection | Integrated | | | |
| Anti-island Protection | Integrated | | | |
| Residual Current Monitoring | Integrated | | | |
| Overtemperature Protection | Integrated | | | |
| DC Surge Protection | Integrated (Type II) | | | |
| AC Surge Protection | Integrated (Type II) | | | |
| **General Data** | | | | |
| Dimensions (W*H*D) [mm] | 536*444*173 | | | |
| Weight [kg] | 18.5 | | | |
| Display | LCD/WEB/APP | | | |
| Communication | WIFI/RS485/LAN | | | |
| Operating Temperature Range [℃] | -25~+60; if>45℃, Power Reduction Needed | | | |
| Relative Humidity | 0%~100%, Non-condensing | | | |
| Operation Altitude [m] | 0~4000, if ≥2000, Power Reduction Needed | | | |
| Self Consumption (night) [W] | < 8 | | | |
| Topology | Transformerless | | | |
| Cooling Concept | Natural Cooling | | | |
| Protection level | IP66 | | | |
| Noise | < 30dB | | | |

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# Single-phase Hybrid Inverter (Low Voltage)

## SVH3/3.6 /4/4.6/5/6 kW

SVH3000L-S1-BM11 SVH3680L-S1-BM22
SVH4000L-S1-BM22 SVH4600L-S1-BM22
SVH5000L-S1-BM22 SVH6000L-S1-BM22


- 160% oversizing
- Switching time <4ms
- Fanless design, maintenance-free
- Max.18A PV input current to match high-power PV module
- AFCI Optional



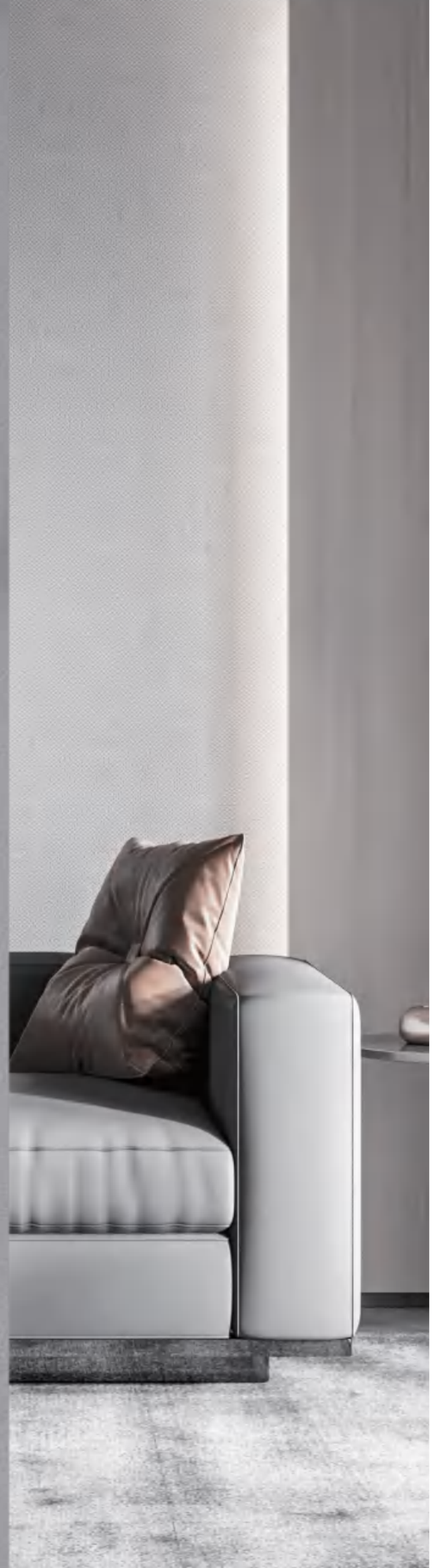
| Model | SVH3000L-S1-BM11 | SVH3680L-S1-BM22 | SVH4000L-S1-BM22 | SVH4600L-S1-BM22 | SVH5000L-S1-BM22 | SVH6000L-S1-BM22 |
|---|---|---|---|---|---|---|
| **PV Input** | | | | | | |
| Recommended Max. PV Input Power [Wp] | 4800 | 5888 | 6400 | 7360 | 8000 | 9600 |
| Max. Input Voltage [V] | 500 | | | | | |
| MPPT Voltage Range [V] | 100~450 | | | | | |
| Rated Input Voltage [V] | 360 | | | | | |
| Start-up Voltage [V] | 120 | | | | | |
| No. of MPPT Trackers | 1 | 2 | 2 | 2 | 2 | 2 |
| No. of PV Strings per MPPT | 1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Max. Input Current per MPPT [A] | 18 | 18/18 | 18/18 | 18/18 | 18/18 | 18/18 |
| Max. Short Circuit Current per MPPT [A] | 27 | 27/27 | 27/27 | 27/27 | 27/27 | 27/27 |
| **AC Output** | | | | | | |
| Rated Output Power [W] | 3000 | 3680 | 4000 | 4600 | 5000 | 6000 |
| Rated Output Current [A] | 13 | 16 | 17.4 | 20 | 21.7 | 26.1 |
| Max. Output Current [A] | 14.3 | 16 | 19.1 | 20 | 23.9 | 28.7 |
| Max. Apparent Output Power [VA] | 3300 | 3680 | 4400 | 4600 | 5500 | 6600 |
| Rated Output Voltage [V] | 220/230/240 | | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | | |
| Power Factor [cos ϕ] | 1(0.8 leading~0.8 lagging) | | | | | |
| THDi (Rated Output Power) | <3% | | | | | |
| **AC Input (Grid)** | | | | | | |
| Max. Apparent Input Power [VA] | 6000 | 7360 | 8000 | 9200 | 9200 | 9200 |
| Max. Input Current [A] | 26.1 | 32 | 34.8 | 40 | 40 | 40 |
| Rated Output Voltage [V] | 220/230/240 | | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | | |
| **Battery** | | | | | | |
| Battery Module Type | Lithium-ion/Lead-acid | | | | | |
| Battery Voltage Range [V] | 40-60 | | | | | |
| Maximum Charge/Discharge Current [A] | 70 | 90 | 90 | 120 | 120 | 135 |
| Battery Communication | CAN/RS485 | | | | | |
| **AC Output (Backup)** | | | | | | |
| Rated Output Power [W] | 3000 | 3680 | 4000 | 4600 | 5000 | 6000 |
| Rated Output Voltage [V] | 220/230/240 | | | | | |
| Rated Output Frequency [Hz] | 50/60 | | | | | |
| Rated Output Current [A] | 13 | 16 | 17.4 | 20 | 21.7 | 26.1 |
| THDi (Rated Output Power) | < 3% | | | | | |
| Switch Time [ms] | 4 | | | | | |
| Peak Apparent Power, Duration [VA, s] | 6000,10 | 7360,10 | 8000,10 | 9200,10 | 10000,10 | 12000,10 |
| **Efficiency** | | | | | | |
| Max. Efficiency | 97.6% | | | | | |
| Euro Efficiency | 96.5% | | | | | |
| Battery Charged/Discharged to AC Max. Efficiency | 96.0%@Charge/95.0%@Discharge | | | | | |
| **Protection** | | | | | | |
| DC Switch | Integrated | | | | | |
| Insulation Resistance Detection | Integrated | | | | | |
| PV Input Reverse Polarity Protection | Integrated | | | | | |
| Anti-island Protection | Integrated | | | | | |
| Residual Current Monitoring | Integrated | | | | | |
| Overtemperature Protection | Integrated | | | | | |
| DC Surge Protection | Integrated (Type II) | | | | | |
| AC Surge Protection | Integrated (Type II) | | | | | |
| AFCI | Optional | | | | | |
| Remote Shutdown | Optional | | | | | |
| **General Data** | | | | | | |
| Dimensions (W*H*D) [mm] | 400*520*223.5 | | | | | |
| Weight [kg] | 18.5 | | | | | |
| Display | LCD/WEB/APP | | | | | |
| Communication | RS485/WiFi/LAN | | | | | |
| Operating Temperature Range [℃] | -30~+60 (if >45℃, output power derating) | | | | | |
| Relative Humidity | 0%~100%, Non-condensing | | | | | |
| Operation Altitude [m] | ≤3000 (if ≥2000 output power derating) | | | | | |
| Self Consumption (night) [W] | < 10 | | | | | |
| Topology | Non-Isolated | | | | | |
| Cooling Concept | Natural Convection | | | | | |
| Protection Level | IP66 | | | | | |
| Noise | < 30dB | | | | | |

# Single-phase Hybrid Inverter (Low Voltage)

## SWH8/10/12 kW

SWH008KL-S1-SR SWH010KL-S1-SR
SWH012KL-S1-SR


- Efficiency Up to 22A*2 PV input current
- Outputs high-quality pure sine wave AC power
- With IP65 protection degree
- Up to 200A charging current
- Time-slot function to save cost with peak-valley





| Model | SWH008KL-S1-SR | SWH010KL-S1-SR | SWH012KL-S1-SR |
|---|---|---|---|
| **Inverter Output** | | | |
| Rated Output Power [W] | 8800 | 10000 | 12000 |
| Max. Peak Power [VA] | 17600 | 20000 | 24000 |
| Rated Output Voltage [Vac] | 220/230/240 single-phase / three-phase (parallel) | | |
| Load Capacity of Motors | 5HP | 6HP | |
| Output Frequency Range [Hz] | 50 ± 0.3/60 ± 0.3 | | |
| Number of Parallel | 1-6 units | | |
| **AC Output (Grid)** | | | |
| Rated Output Power [W] | 8800 | 10000 | 12000 |
| Max. Apparent Power [VA] | 8800 | 10000 | 12000 |
| Max. Output Current [A] | 40 | 45.5 | 54.5 |
| Rated Output Voltage [Vac] | 220/230/240 | | |
| THDI | < 3% | | |
| Power Factor | 0.8 leading to 0.8 lagging | | |
| Frequency [Hz] | 50/60 | | |
| **Battery** | | | |
| Battery Type | Lead-acid / Li-ion / User-defined | | |
| Rated Battery Voltage [V] | 48 | | |
| Battery Voltage Range [Vdc] | 40-60 | | |
| Max. Generator Charging Current [A] | 60 | | |
| Max. Grid Charging Current [A] | 120 | | |
| Max. PV Charging Current [A] | 200 | | |
| Max. Hybrid Charging Current [A] | 200 | | |
| **PV Input** | | | |
| Num. of MPPT Trackers | 2 | | |
| Max.PV Array Power [W] | 5500+5500 | | 6600+6600 |
| Max. Input Current [A] | 22+22 | | |
| Max. Voltage of Open Circuit [Vdc] | 500+500 | | |
| MPPT Operating Voltage Range [Vdc] | 125-425 | | |
| **Mains/Generator Input** | | | |
| Input Voltage Range [Vac] | 90-280 | | |
| Frequency Range [Hz] | 50/60 | | |
| Bypass Overload Current [A] | 63 | | |
| **Efficiency** | | | |
| MPPT Tracking Efficiency | 99.9% | | |
| Max. Efficiency | 97.5% | | |
| European Efficiency | 97.0% | | |
| **General** | | | |
| Dimension (W*H*D) [mm] | 440*670*240 | | |
| Weight [Kg] | 37 | | |
| Protection Degree | IP65 | | |
| Operating Temperature Range | -25-60℃ (>45℃ derating) | | |
| Humidity Range | 0%-100% | | |
| Cooling Method | Forced air cooling | | |
| **Communication** | | | |
| Embedded Interfaces | RS485 / CAN / USB / Dry contact | | |
| External Module (optional) | Wi-Fi / GPRS | | |
| **Certification** | | | |
| Safety | IEC62109-1, IEC62109-2 | | |
| EMC | EN61000-6-1, EN61000-6-3, FCC15 classB | | |
| RoHS | Yes | | |

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## Three-phase Hybrid Inverter (High Voltage)

# SWH5/8 /10/12/15 kW

SWH005KH-T1 SWH008KH-T1
SWH010KH-T1 SWH012KH-T1
SWH015KH-T1


- Low starting voltage, wide operating voltage range
- Switching time <10ms
- Flexible monitoring mode
- AC and DC surge protection



| Model | SWH005KH-T1 | SWH008KH-T1 | SWH010KH-T1 | SWH012KH-T1 | SWH015KH-T1 |
|---|---|---|---|---|---|
| **PV Input** | | | | | |
| Recommended Max. PV Power [Wp] | 6500 | 10400 | 13000 | 15600 | 18750 |
| Max. Input Voltage [V] | 1000 | | | | |
| MPPT Voltage Range [V] | 180-950 | | | | |
| Rated Voltage [V] | 600 | | | | |
| Start-up Voltage [V] | 200 | | | | |
| No. of MPPT Trackers | 2 | | | | |
| No. of PV Strings per MPPT | 1/1 | | 2/1 | | |
| Max. Input Current per MPPT [A] | 15/15 | | 30/15 | | |
| Max. Short Circuit Current per MPPT [A] | 18/18 | | 36/18 | | |
| **AC Output** | | | | | |
| Rated Output Power [W] | 5000 | 8000 | 10000 | 12000 | 15000 |
| Rated Output Current [A] | 7.2 | 11.6 | 14.5 | 17.4 | 21.7 |
| Max. Output Current [A] | 7.9 | 12.7 | 15.9 | 19.1 | 23.8 |
| Max. Apparent Output Power [VA] | 5500 | 8800 | 11000 | 13200 | 16500 |
| Rated Output Voltage [V] | 220/380; 230/400; 240/415 | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | |
| Power Factor | 1/0.8( leading)~0.8( lagging) | | | | |
| THDi (Rated Output Power ) | < 3% | | | | |
| **AC Input (Grid)** | | | | | |
| Max. Apparent Input Power [VA] | 5500 | 8800 | 11000 | 13200 | 16500 |
| Max. Input Current [A] | 7.9 | 12.7 | 15.9 | 19.1 | 23.8 |
| Rated Input Voltage [V] | 220/380; 230/400 | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | |
| **Battery** | | | | | |
| Battery Type | Lithium Iron Phosphate(LFP) | | | | |
| Battery Voltage Range [V] | 150-600 | | | | |
| Max. Charge/Discharge Current [A] | 25 | | | | |
| Battery Communication | CAN | | | | |
| **AC Output (Off-grid )** | | | | | |
| Rated Output Power [W] | 5000 | 8000 | 10000 | 12000 | 15000 |
| Rated Output Voltage [V] | 220/380; 230/400 | | | | |
| Rated Output Frequency [Hz] | 50/60 | | | | |
| Rated Output Current [A] | 7.2 | 11.6 | 14.5 | 17.4 | 21.7 |
| THDi (Rated Output Power ) | < 3% | | | | |
| Switch Time [ms] | 10 | | | | |
| Peak Apparent Power , Duration [VA, s] | 7500, 30 | 12000, 30 | 15000, 30 | 18000, 30 | 22500, 30 |
| **Efficiency** | | | | | |
| Max. Efficiency | 98.7% | | | | |
| EU Efficiency | 97.8% | | | | |
| Battery Charged/Discharged to AC Max. Efficiency | 98.5%@Charge/97.0%@Discharge | | | | |
| **Protection** | | | | | |
| DC Switch | Integrated | | | | |
| Insulation Resistance Detection | Integrated | | | | |
| Input Reverse Polarity Protection | Integrated | | | | |
| Anti-island Protection | Integrated | | | | |
| Residual Current Monitoring | Integrated | | | | |
| Overtemperature Protection | Integrated | | | | |
| DC Surge Protection | Integrated (Type II) | | | | |
| AC Surge Protection | Integrated (Type II) | | | | |
| **General Data** | | | | | |
| Dimensions (W*H*D) [mm] | 498*563*200 | | | | |
| Weight [kg] | 28 | | | | 29 |
| Display | LCD/WEB/APP | | | | |
| Communication | WIFI/RS485/LAN | | | | |
| Operating Temperature Range [℃] | -25~+60 | | | | |
| Relative Humidity | 0%~100%, Non-condensing | | | | |
| Operation Altitude [m] | ≤4000, if >2000, Power Reduction Needed | | | | |
| Self Consumption (night) [W] | < 15 | | | | |
| Topology | Transformerless | | | | |
| Cooling Concept | Natural Convection | | | | Smart Fan-cooling |
| Protection level | IP66 | | | | |

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## Three-phase Hybrid Inverter (High Voltage)

# SVH29.9 /30/40/50 kW

SVH029KH-T1-BM48 SVH030KH-T1-BM48
SVH040KH-T1-BM510 SVH050KH-T1-BM510


**PV Side**
Max. 5 MPPTs
2 times oversizing

**Battery Side**
55A*3 independent input
Support 3 in 1 or 3 different battery connection
Perfectly compatiable with 280/314Ah cell

**AC Side**
2 times rated power input
100% unbalanced output
GEN port for diesel generator/smart load/AC couple connection

**Protection**
Support smart RSD connection
AFCI optional
IP66 degree

**User friendly**
Scalable to 150kW system
Low noise less than 60dB



| Model | SVH029KH-T1-BM48 | SVH030KH-T1-BM48 | SVH040KH-T1-BM510 | SVH050KH-T1-BM510 |
|---|---|---|---|---|
| **PV Input** | | | | |
| Recommended Max. PV Input Power [W] | 59800 | 60000 | 80000 | 100000 |
| Max. Input Voltage [V] | 1000 | | | |
| MPPT Voltage Range [V] | 180-850 | | | |
| Rated Voltage [V] | 600 | | | |
| Start-up Voltage [V] | 200 | | | |
| No. of MPPT Trackers | 4 | | 5 | |
| No. of PV Strings per MPPT | 2 | | | |
| Max. Input Current per MPPT [A] | 40 | | | |
| Max. Short Circuit Current per MPPT [A] | 60 | | | |
| **Battery** | | | | |
| Battery Module Type | Lithium-ion | | | |
| Battery Voltage Range [V] | 160-800 | | | |
| Maximum Charge/Discharge Current [A] | 55*3 | | | |
| Maximum Charge/Discharge Power [W] | 1.1 times of rated Power | | | |
| No. of Battery Input | 3 | | | |
| BMS Communication | Self-adaption BMS, CAN/RS485 | | | |
| **AC Input/Output (Grid)** | | | | |
| Rated Input/Output Power [W] | 29900 | 30000 | 40000 | 50000 |
| Max. Input Power [W] | 59800 | 60000 | 80000 | 100000 |
| Max. Input Current [A] | 86.3 | 86.6 | 115.5 | 144.3 |
| Max. Output Power [W] | 29900 | 33000 | 44000 | 55000 |
| Max. Output Current [A] | 43.2 | 47.6 | 63.5 | 79.4 |
| Rated Voltage [V] | 3L/N/PE 220/380, 230/400 | | | |
| Rated Frequency [Hz] | 50/60 | | | |
| Max. Continuous AC Passthrough(A) | 200A | | | |
| Power Factor [cos φ] | 1(0.8leading~ 0.8lagging) | | | |
| THDi (Rated Output Power) | <3% | | | |
| DC Injection | <0.5%In | | | |
| **AC Output (Backup)** | | | | |
| Rated Output Power [W] | 29900 | 30000 | 40000 | 50000 |
| Rated Output Current [A] | 43.2 | 43.3 | 57.7 | 72.2 |
| Max. Output Power [W] | 29900 | 33000 | 44000 | 55000 |
| Max. Output Current [A] | 43.2 | 47.6 | 63.5 | 79.4 |
| Peak Output Power [W] | 1.2 times of rated power, 60s / 1.5 times of rated power, 30s | | | |
| Rated Output Voltage [V] | 3L/N/PE 220/380, 230/400 | | | |
| Rated Output Frequency [Hz] | 50/60 | | | |
| THDv (Rated Output Power) | < 3% | | | |
| UPS Switch Time [ms] | <10ms | | | |
| **AC Input/Output (GEN)** | | | | |
| Rated Iutput/Output Power [W] | 29900 | 30000 | 40000 | 50000 |
| Max. Input Power [W] | 59800 | 60000 | 80000 | 100000 |
| Max. Input Current [A] | 86.3 | 86.6 | 115.5 | 144.3 |
| Max. Output Power [W] | 29900 | 33000 | 44000 | 55000 |
| Max. Output Current [A] | 43.2 | 47.6 | 63.5 | 79.4 |
| Rated Voltage [V] | 3L/N/PE 220/380, 230/400 | | | |
| Rated Frequency [Hz] | 50/60 | | | |
| **Efficiency** | | | | |
| Max. Efficiency | 97.80% | | | |
| Euro Efficiency | 97.40% | | | |
| MPPT Efficiency | 99.9% | | | |
| Battery Charged by PV Max. Efficiency | 98.5% | | | |
| Battery Charge/Discharge to AC Max. Efficiency | 97.5% | | | |
| **General Data** | | | | |
| Dimensions (W*H*D) | 580x920x300mm (Excluding connectors and brackets) | | | |
| Weight | 93kg | | | |
| Display | OLED+LED & APP | | | |
| Communication | WiFi&LAN /4G/Bluetooth | | | |
| Operating Temperature Range | - 30 ~ + 60 ° C(if>45° C,output power derating) | | | |
| Relative Humidity | 0%~100%，Non-condensing | | | |
| Operation Altitude | ≤ 4000m(if ≥ 3000m output power derating) | | | |
| Self Consumption (night) | < 35W | | | |
| Topology | Transformerless | | | |
| Cooling Concept | Smart Fan | | | |
| Protection level | IP66, C5L | | | |
| Noise | <60dB | | | |
| Installation Method | Wall Mounted | | | |
| Warranty | 5 Years (10 Years Optional) | | | |
| No. of Parallel | 3 | | | |
| **Certificate** | | | | |
| Safety | IEC 62109-1/2 | | | |
| EMC | IEC 61000-1/2/3/4 | | | |
| Grid | VDE 4105,CEI 0-21,NRS097,EN 50549-1/10,IEC 61683/EN 50530,IEC 62116/IEC 61727 | | | |
| **Protection** | | | | |
| DC Switch,Insulation Resistance Detection,PV Input Reverse Polarity Protection,Battery Input Reverse Polarity Protection,AC/DC Surge Protection,Grid Detection Protection,Anti-island Protection,AC Over Voltage Protection,AC Over Load Protection,Short Current Protection,Grounding Fault Protection,Residual Current Monitoring,Overtemperature Protection,Smart RSD,PID, AFCI(Optional) | | | | |

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## Communication Accessories

# SWDA-WL-S1

- Flexible Networking via WiFi or Ethernet
- Bluetooth as Standard, Easy Maintenance with APP
- IP65 Rated for Harsh Environments
- Status LEDs for Easy Monitoring



| Model | SWDA-WL-S1 |
|---|---|
| **WIFI Parameters** | |
| Standard | IEEE802.11b/g/n |
| Operating channel frequency | 2.4~2.5G (2412~2484Mhz) |
| **Electrical Parameters** | |
| Data rate | Serial port: 115200 bps |
| Operating voltage | 5V (±10%) |
| Maximum current | 0.8A |
| Average power | 2W |
| **General Parameters** | |
| Dimensions (L*W*H) [mm] | 150*50*35 |
| Weight [g] | 80 |
| **Environmental Parameters** | |
| Degree of protection | IP65 |
| Operating temperature range | -30℃-65℃ |
| Operating humidity range | 10% -90% RH, non-condensing |
| Storage temperature range | -40℃-70℃ |
| Storage humidity range | <40% |
| **Application Parameters** | |
| Communication protocol (inverter) | USB (USRT serial port) |
| Communication protocol (Cloud) | TCP/IP |
| Support Network | 2.4G |
| User configuration interface | APP/WEB |
| Data upload cycle | 5 minutes (1-5 minutes can be customized) |

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# Battery System

Residential Energy Storage System (high voltage)

High Voltage Battery

Low Voltage Battery

Smar-Energy Storage Outdoor Cabinet

## Residential Energy Storage System (High Voltage)

# SWES3/4/5/6 kW

Inverer
SWH3000H-S1 | SWH4000H-S1
SWH5000H-S1 | SWH6000H-S1

Battery
SWR5120-S1

- Global Shadow Scanning
- Tri-color Ring Ambient Light Design
- Internal Non-turbulent Fan
- Quiet and Low Noise <30dB
- Higher System Efciency



| Model | SWES3000H-S1 | SWES4000H-S1 | SWES5000H-S1 | SWES6000H-S1 |
|---|---|---|---|---|
| **Inverter** | | | | |
| Model | SWH3000H-S1 | SWH4000H-S1 | SWH5000H-S1 | SWH6000H-S1 |
| Recommended Max. PV Power [Wp] | 4500 | 6000 | 7500 | 9000 |
| Max. Input Voltage [V] | 600 | | | |
| MPPT Voltage Range [V] | 80-560 | | | |
| Rated Input Voltage [V] | 360 | | | |
| Start-up Voltage [V] | 90 | | | |
| No. of MPPT Trackers | 1 | 2 | | |
| No. of PV Strings per MPPT | 1 | 1/1 | | |
| Max. Input Current per MPPT [A] | 14 | 14/14 | | |
| Max. Short Circuit Current per MPPT [A] | 18 | 18/18 | | |
| Rated Output Voltage [V] | 220/230/240 | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | |
| Rated Output Power [W] | 3000 | 4000 | 5000 | 6000 |
| Max. Apparent Output Power [VA] | 3300 | 4400 | 5500 | 6600 |
| Rated Output Voltage [V] (Backup) | 220/230/240 | | | |
| Rated Output Frequency [Hz] (Backup) | 50/60 | | | |
| Rated Output Power [W] (Backup) | 3000 | 4000 | 5000 | 6000 |
| Max. Output Apparent Power [VA] (Backup) | 3300 | 4400 | 5500 | 6600 |
| Rated Output Current [A] (Backup) | 15 | 20 | 25 | 30 |
| Peak Output Power, Duration [VA, s] (Backup) | 4500, 60 | 6000, 60 | 7500, 60 | 7500, 60 |
| Switch Time [ms] | < 10 | | | |
| Topology | Transformerless | | | |
| Dimensions (W*H*D) [mm] | 536*444*173 | | | |
| Weight [kg] | 18.5 | | | |

| **Battery** | |
|---|---|
| Model | SWR5120-S1 |
| Battery type | Lithium Iron Phosphate(LFP) |
| Nominal Capacity [kWh] | 5.12 |
| Depth of Discharge | 90% |
| Dimensions (W*H*D) [mm] | 536*335*190 |
| Weight [kg] | 50 |
| Safety Regulation | IEC62619, IEC62040-1, IEC63056, VDE2510, CE, CEC |

| **System Parameters** | |
|---|---|
| System Configuration | SWH3000~6000H-S1+N*SWR5120-S1 |
| Communication | WIFI/RS485/LAN |
| Operating Temperature Range [℃] | -25~+60 |
| Relative Humidity | 0%~100%, Non-condensing |
| Operation Altitude [m] | ≤2000 |
| Cooling Concept | Natural Convection |
| Protection Level | IP66 |

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# High Voltage Battery

## SWR

SWR5.12-H1 SWR7.68-H1 SWR10.24-H1
SWR12.80-H1 SWR15.36-H1 SWR17.92-H1
SWR20.48-H1


- Modular design, easy installation
- IP65 outdoor design
- 90% discharge depth
- Suppors up to 8 batteries in series



| Model | SWR5.12-H1 | SWR7.68-H1 | SWR10.24-H1 | SWR12.80-H1 | SWR15.36-H1 | SWR17.92-H1 | SWR20.48-H1 |
|---|---|---|---|---|---|---|---|
| **Features** | | | | | | | |
| Battery Module Type | Lithium Iron Phosphate (LFP) | | | | | | |
| Battery Module Quantity | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Total Energy [kWh] | 5.12 | 7.68 | 10.24 | 12.8 | 15.36 | 17.92 | 20.48 |
| Usable Energy(90%DOD) [kWh] | 4.61 | 6.91 | 9.21 | 11.52 | 13.82 | 16.13 | 18.43 |
| Rated Voltage [V] | 102.4 | 153.6 | 204.8 | 256 | 307.2 | 358.4 | 409.6 |
| Operating Voltage Range [V] | 80-116.8 | 120-175.2 | 160-233.6 | 200-350.4 | 320-467.2 | 360-525.6 | 400-584 |
| Maximum Discharge Current [A] | 50 | | | | | | |
| Battery Roundtrip Efficiency | > 95% | | | | | | |
| Recommended Depth of Discharge | 90% | | | | | | |
| Scalability | Support up to 8 batteries in series | | | | | | |
| **Operating Conditions** | | | | | | | |
| Installation | Stacked | | | | | | |
| Operation Temperature [℃] | -10~50 | | | | | | |
| Storage Temperature [℃] | -20~50 | | | | | | |
| Communication | CAN | | | | | | |
| Cooling Concept | Natural Cooling | | | | | | |
| Humidity | 5%~85% (Non-condensing) | | | | | | |
| Altitudes [m] | ≤2000 | | | | | | |
| **General Data** | | | | | | | |
| Dimensions(W*H*D) [mm] | 500*484*380 | 500*626*380 | 500*768*380 | 500*910*380 | 500*1052*380 | 500*1194*380 | 500*1336*380 |
| Weight [kg] | 68.4 | 96.8 | 125.2 | 153.6 | 182 | 210.4 | 238.8 |
| **Certification** | | | | | | | |
| Safety Regulation | IEC62619, IEC60730, IEC62477 | | | | | | |
| EMC | EN IEC 61000-6-1/-2/-3/-4 | | | | | | |
| Deliveries | UN38.3 | | | | | | |
| Protection Level | IP65 | | | | | | |

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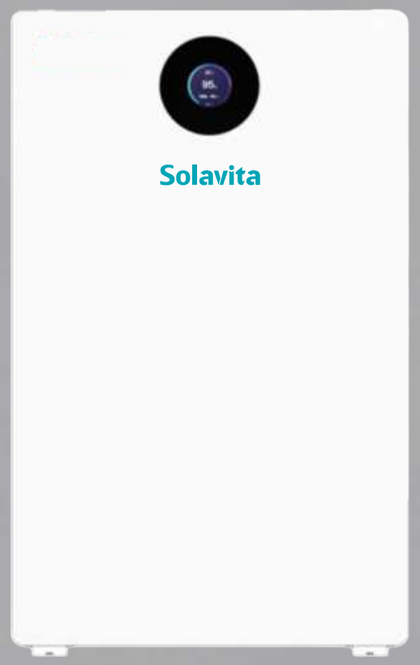
## Low Voltage Battery

# SWR5.12/10.24kWh

SWR5.12-L1-SW
SWR10.24-L1-SW




- Up to 16 in parallel connection
- Reliable lithium-ion battery management solutions for 6000 cycles
- Plug-and-play, wiring can be done from either side
- Minimum width of just 10 cm, saving space in the home



| Model | SWR5.12-L1-SW | SWR10.24-L1-SW |
|---|---|---|
| **MAININFO** | | |
| Rated Voltage [V] | 51.2 | |
| Rated Capacity [Ah] | 100 | 200 |
| Battery Power [kWh] | 5.12 | 10.24 |
| Battery Type | LFP | |
| Crycling Lifespan | 6000 Cycles | |
| Lifetime | 20 Years | |
| Max. Parallel Capacity | 16 units | |
| **CHARGE&DISCHRAGE** | | |
| Max. Charging Voltage [V] | 57.6 | |
| Over Discharging Voltage [V] | 44.8 | |
| Max. Charging Current [A] | 100 | 150 |
| Peak Charging Current [A] | 110 (1.1C,3s) | 200 (3s) |
| Max. Discharging Current [A] | 100 (1C) | 200 |
| Peak Discharging Current [A] | 110 (1.1C,3s) | 220 (3s) |
| **General Data** | | |
| Weight [kg] | 47 | 88 |
| Dimension (W*H*D) [mm] | 460*725*100 mm | 620*1014*205 mm |
| Communication | CAN / RS485 / USB / WiFi / Bluetooth | |
| Storage Condition | 6 months @25℃; 3 months @35℃; 1 months @45℃ | |
| Charging Temp. Range [℃] | 0~45 | |
| Discharging Temp. Range [℃] | -10~45 | |
| Cooling Method | Neutral Cooling | |
| Protection Grade | IP65 | IP65 |
| **Certification** | | |
| Transportation | UN38.3, MSDS | |
| Safety | IEC 62619:2017, EN IEC 61000-6, UL1973 | EN 55032, EN 55024, EN 61000-3-2, EN 61000-3-3 |

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# Smart-Energy Storage Outdoor Cabinet

## SWS

SWS-P30E100-AC SWS-P40E100-AC
SWS-P50E100-AC SWS-P30E72-AC
SWS-P40E86-AC


- Support multi-stage parallel, diesel port can be in parallel, off-grid port can be in parallel
- Lightning protection Integrated (Type II)
- ALL-IN-ONE modularized design
- Intelligent operation management
- Built-in EMS function for improved energy efficiency management



| Model | SWS-P30E100-AC | SWS-P40E100-AC | SWS-P50E100-AC | SWS-P30E72-AC | SWS-P40E86-AC |
|---|---|---|---|---|---|
| **PV input parameters** | | | | | |
| Maximum input powert [W] | 60000 | 80000 | 100000 | 60000 | 80000 |
| Maximum input voltage [V] | 1000 | | | | |
| MPPT operating voltage range [V] | 180-900 | | | | |
| Maximum input current per circuit [A] | 40 | | | | |
| Maximum short-circuit current per circuit [A] | 60 | | | | |
| MPPT quantity | 3 | 4 | 4 | 3 | 4 |
| Number of input group strings per MPPT | 2 | | | | |
| **Grid-connected output parameters (AC)** | | | | | |
| Power rating [W] | 30000 | 40000 | 50000 | 30000 | 40000 |
| Maximum vision in power [VA] | 33000 | 44000 | 55000 | 33000 | 44000 |
| Rated voltage | 380V/400V, 3L/N/PE | | | | |
| Nominal Frequency | 50Hz/60Hz | | | | |
| Maximum current [A] | 43.3 | 57.7 | 72.2 | 43.3 | 57.7 |
| Power factor range | 0.8 ind...0.8 cap | | | | |
| Current total harmonic distortion (@ rated power) | < 3% | | | | |
| **Off-grid output parameters (AC)** | | | | | |
| Rated voltage | 380V/400V, 3L/N/PE | | | | |
| Nominal Frequency | 50Hz/60Hz | | | | |
| Rated output current [A] | 43.3 | 57.7 | 72.2 | 43.3 | 57.7 |
| Rated output rating [W] | 30000 | 40000 | 50000 | 30000 | 40000 |
| Maximum view at output power @60s [VA] | 36000 | 48000 | 60000 | 36000 | 48000 |
| Maximum view at output power @30s [VA] | 45000 | 60000 | 75000 | 45000 | 60000 |
| And switch time off the grid | < 10ms | | | | |
| **Battery parameters** | | | | | |
| Operating voltage range [V] | 324.8-397.6 | | | 232-284 | 278.4-340.8 |
| Battery model | SWC14.34-H1 | | | | |
| Rated charge / discharge current [A] | 140A/140A | | | | |
| Maximum charge / discharge current [A] | 200A/200A | | | | |
| Battery quantity | 7 | | | 5 | 6 |
| Single pack battery capacity [kWh] | 14.3 | | | | |
| Rated capacity [kWh] | 100.1 | | | 71.5 | 85.8 |
| Active volume [kWh] | 90.1 | | | 64.4 | 77.2 |
| **Temperature controlling system** | | | | | |
| Temperature controlling system | Temperature constant humidity air conditioning | | | | |
| **Fire extinguisher system** | | | | | |
| Active fire fighting | Detector + thermal aerosol fire extinguishing device | | | | |
| Passive fire fighting | Thermal aerosol fire-extinguishing unit | | | | |
| **Essential parameter** | | | | | |
| Dimensions (W*H*D) [mm] | 1000*2050*1200 | | | | |
| Weight [t] | 1.3 | | | | |
| Levels of protection | IP55 | | | | |
| Anti-corrosion grade | C4 | | | | |

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# PV Modules Series

All Black Series

High Efficiency Series

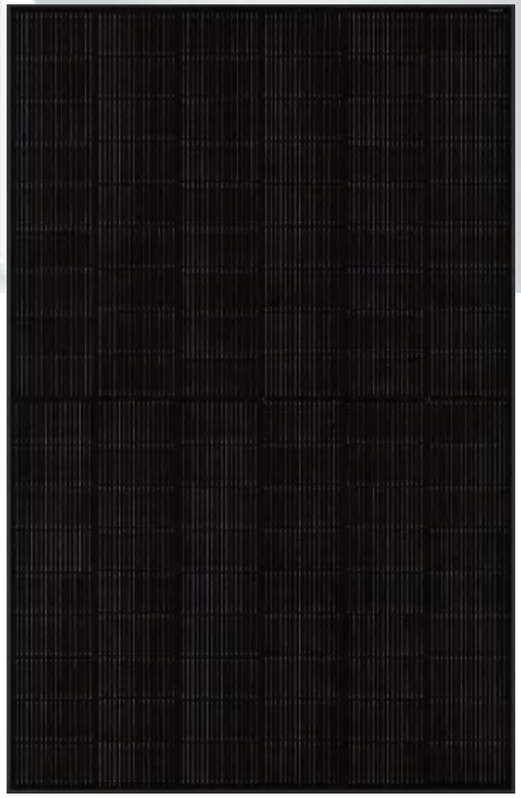
Anti-dust Series

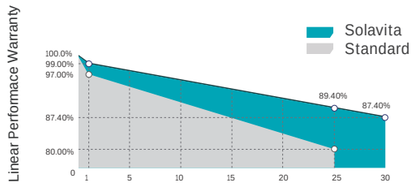
Customizable Colors Panel Series

# All Black Series

## N+series

All-Black Solar Panels-54
420-440W






**15 YEARS** 15-year product warranty
**30 YEARS** 30-year linear power output warranty
**0.4%** year 2-30 power degration

### QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2018)
ISO 9001:2015: Quality management systems
ISO 14001:2015: Environmental management systems
ISO 45001:2018: Occupational health and safety management systems

### Bifacial Energy Yield | N-type Silicon Wafer

Bifacial rate of up to 80%, module additional power generation of up to 10% over regular modules

### Better low irradiance response

Superior power generation under shading conditions

### Improvement in power generation performance

Conversion efficiency up to 22.02%

### Highly Anti PID

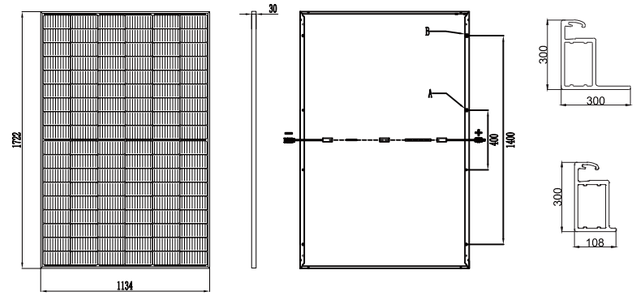
linear power warranty with first year ≤1% degradation and an annual degradation rate of up to 0.4% after that

### Highly reliable

15-year product warranty,30-year linear power output warranty



## Technical drawing



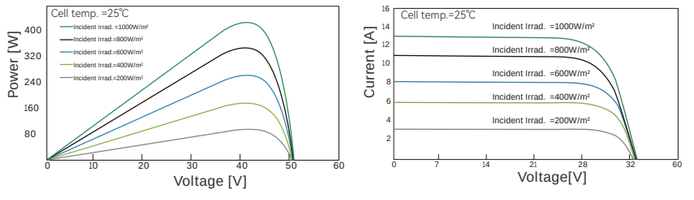

## Mechanical Specifications

| | |
|---|---|
| Solar Cells | 108 (54×2) |
| Dimension | 1722 × 1134 × 30mm |
| Weight | 23.8kg |
| Front Glass | 2.0mm tempered Glass, high transparency |
| Back Glass | 2.0mm heat-tempered glass |
| Frame | anodized aluminium alloy |
| Junction Box | IP68 / 3 diodes |
| Output Cables | 4mm² / +300mm -300mm (Customized Length) |

## Electrical Characteristics

| Module Type | 182THCD420-54 | 182THCD425-54 | 182THCD430-54 | 182THCD435-54 | 182THCD440-54 |
|---|---|---|---|---|---|
| | STC | STC | STC | STC | STC |
| Maximum Power[W] | 420 | 425 | 430 | 435 | 440 |
| Maximum Power Voltage[V] | 33.97 | 34.08 | 34.19 | 34.30 | 34.41 |
| Maximum Power Current[A] | 12.37 | 12.48 | 12.59 | 12.68 | 12.79 |
| Open circuit voltage[V] | 38.94 | 39.06 | 39.19 | 39.31 | 39.44 |
| Short Circuit Current[A] | 13.06 | 13.17 | 13.29 | 13.39 | 13.50 |
| Module Efficiency | 21.51% | 21.76% | 22.02% | 22.27% | 22.53% |
| Operating Temperature | -40℃~+85℃ | | | | |
| Maximum System Voltage | DC1500V | | | | |
| Maximum Series Fuse Rating | 25A | | | | |
| Power Tolerance[W] | 0~+5W | | | | |
| Voc Temperature Coefficient | -0.28%/℃ | | | | |
| Pmax Temperature Coefficient | -0.29%/℃ | | | | |
| Isc Temperature Coefficient | 0.04%/℃ | | | | |
| Nominal Opearting Cell Temperature | 45±2℃ | | | | |

## Characteristic




## Level

| | |
|---|---|
| Fire Performance | C |
| Security Protection | Class II |

## Packing Configuration

| | |
|---|---|
| Pallet | 36pcs/Pallet |
| Container | 936pcs/40HQ Container |

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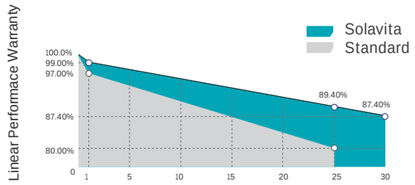
# High Efficiency Series

## N+series

High Efficiency-72

570-595W




**15 YEARS** 15-year product warranty

**30 YEARS** 30-year linear power output warranty

**0.4%** year 2-30 power degration

## QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2018)
ISO 9001:2015: Quality management systems
ISO 14001:2015: Environmental management systems
ISO 45001:2018: Occupational health and safety management systems

### Bifacial Energy Yield | N-type Silicon Wafer

Additional power generation from the backside of bifacial modules increases the overall energy yield

### Better low irradiance response

Superior power generation under shading conditions

### Improvement in power generation performance

Conversion efficiency reached 22.84%

### Highly Anti PID

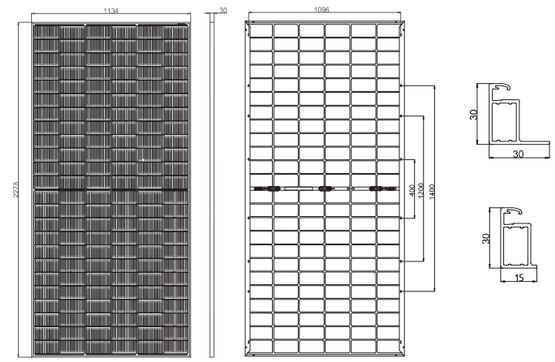
linear power warranty with first year ≤1% degradation and an annual degradation rate of up to 0.4% after that

### Mechanical load enhancement

Maximum wind load (3600Pa) / Maximum snow load (5400Pa)



## Technical drawing



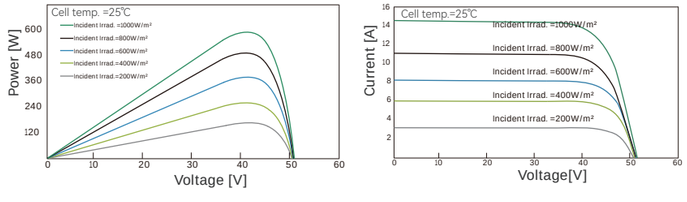

## Mechanical Specifications

| | |
|---|---|
| Solar Cells | 144(72×2) |
| Dimension | 2278×1134×30mm |
| Weight | 31.3kg |
| Front Glass | 2.0mm tempered Glass, high transparency |
| Back Glass | 2.0mm heat-tempered glass |
| Frame | anodized aluminium alloy |
| Junction Box | IP68 / 3 diodes |
| Output Cables | 4mm² / +300mm - 300mm (Customized Length) |

## Electrical Characteristics

| Module Type | QM182THCD570-72 | QM182THCD575-72 | QM182THCD580-72 | QM182THCD585-72 | QM182THCD590-72 | QM182THCD595-72 |
|---|---|---|---|---|---|---|
| | STC | STC | STC | STC | STC | STC |
| Maximum Power[W] | 570 | 575 | 580 | 585 | 590 | 595 |
| Maximum Power Voltage[V] | 44.49 | 44.66 | 43.83 | 45.00 | 45.17 | 45.34 |
| Maximum Power Current[A] | 12.84 | 12.90 | 12.94 | 13.00 | 13.06 | 13.12 |
| Open circuit voltage[V] | 51.84 | 52.04 | 52.24 | 52.43 | 52.63 | 52.83 |
| Short Circuit Current[A] | 13.52 | 13.58 | 13.62 | 13.69 | 13.75 | 13.82 |
| Module Efficiency | 22.06% | 22.26% | 22.45% | 22.65% | 22.84% | 23.03% |
| Operating Temperature | -40℃~+85℃ | | | | | |
| Maximum System Voltage | DC 1500V | | | | | |
| Maximum Series Fuse Rating | 25A/30A | | | | | |
| Power Tolerance[W] | 0~+5W | | | | | |
| Voc Temperature Coefficient | -0.28%/℃ | | | | | |
| Pmax Temperature Coefficient | -0.29%/℃ | | | | | |
| Isc Temperature Coefficient | 0.04%/℃ | | | | | |
| Nominal Opearting Cell Temperature | 45±2℃ | | | | | |

## Characteristic




## Level

| | |
|---|---|
| Fire Performance | C |
| Security Protection | Class II |

## Packing Configuration

| | |
|---|---|
| Pallet | 36pcs/Pallet |
| Container | 720pcs/40HQ Container |

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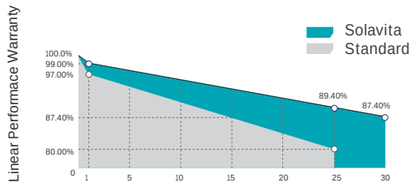
## Anti-dust Series

# N+series

Anti-dust accumulation Solar Panels-78

620-645W




**15 YEARS** 15-year product warranty

**30 YEARS** 30-year linear power output warranty

**0.4%** year 2-30 power degration

## QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2018)
ISO 9001:2015: Quality management systems
ISO 14001:2015: Environmental management systems
ISO 45001:2018: Occupational health and safety management systems

### Anti-dust accumulation design
Reducing the impact of dust accumulation

### Lower O&M Costs
Improving life-cycle power generation Reduces cleaning frequency and cost

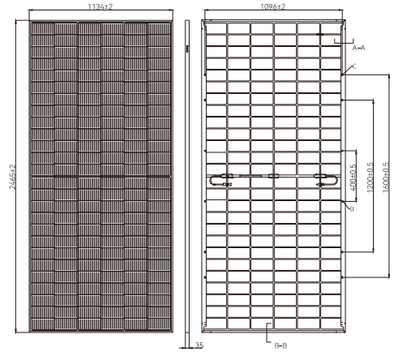
### Improvement in power generation performance
Conversion efficiency reached 22.89%

### Highly Anti PID
linear power warranty with first year ≤1% degradation and an annual degradation rate of up to 0.4% after that

### Mechanical load enhancement
Maximum wind load (3600Pa) / Maximum snow load (5400Pa)



## Technical drawing




## Mechanical Specifications

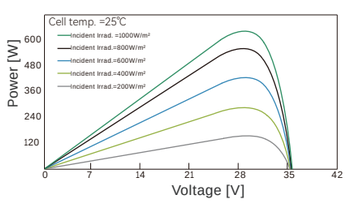
| | |
|---|---|
| Solar Cells | 156(78×2) |
| Dimension | 2465 × 1134 × 35mm |
| Weight | 34.3kg |
| Front Glass | 2.0mm tempered Glass, high transparency |
| Back Glass | 2.0mm heat-tempered glass |
| Frame | anodized aluminium alloy |
| Junction Box | IP68 / 3 diodes |
| Output Cables | 4mm² / +300mm -300mm (Customized Length) |

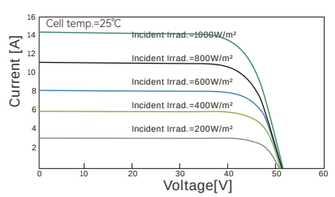
## Electrical Characteristics

| Module Type | QM182THCD620-78 | QM182THCD625-78 | QM182THCD630-78 | QM182THCD635-78 | QM182THCD640-78 | QM182THCD645-78 |
|---|---|---|---|---|---|---|
| | STC | STC | STC | STC | STC | STC |
| Maximum Power[W] | 620 | 625 | 630 | 635 | 640 | 645 |
| Maximum Power Voltage[V] | 47.38 | 47.55 | 47.72 | 47.89 | 48.08 | 48.23 |
| Maximum Power Current[A] | 13.09 | 13.15 | 13.20 | 13.26 | 13.32 | 13.37 |
| Open circuit voltage[V] | 56.97 | 57.17 | 57.38 | 57.58 | 57.79 | 57.99 |
| Short Circuit Current[A] | 13.45 | 13.51 | 13.57 | 13.63 | 13.69 | 13.75 |
| Module Efficiency | 22.18% | 22.30% | 22.53% | 22.71% | 22.89% | 23.07% |

| | |
|---|---|
| Operating Temperature | -40℃~+85℃ |
| Maximum System Voltage | DC1500V |
| Maximum Series Fuse Rating | 25A/30A |
| Power Tolerance[W] | 0~+5W |
| Voc Temperature Coefficient | -0.28%/℃ |
| Pmax Temperature Coefficient | -0.29%/℃ |
| Isc Temperature Coefficient | 0.04%/℃ |
| Nominal Opearting Cell Temperature | 45±2℃ |

## Characteristic




## Level

| | |
|---|---|
| Fire Performance | C |
| Security Protection | Class II |

## Packing Configuration

| | |
|---|---|
| Pallet | 31pcs/Pallet |
| Container | 496pcs/40HQ Container |

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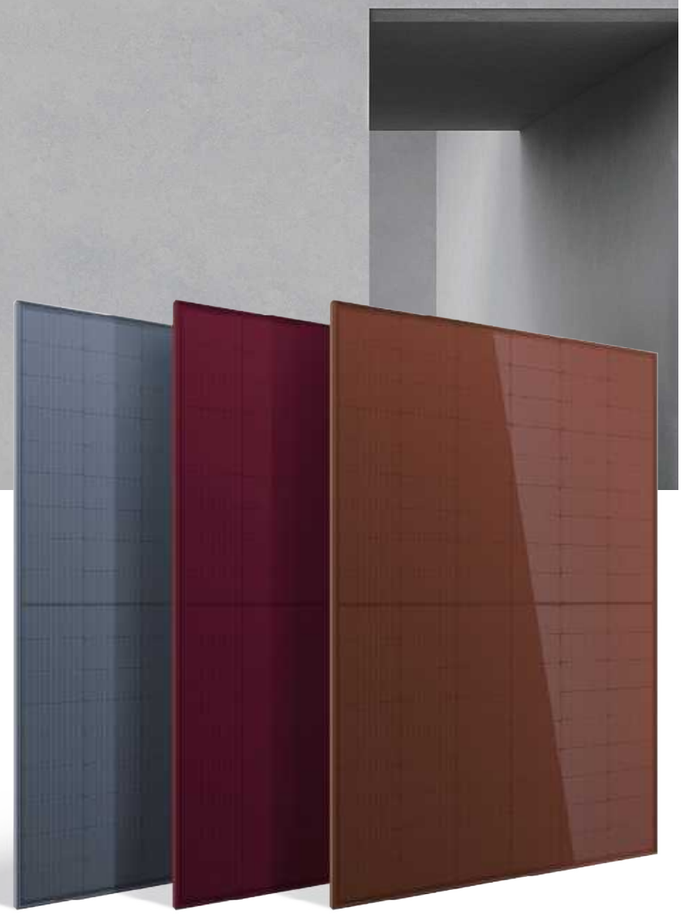
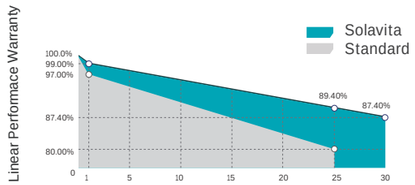
# Customizable Colors Panel Series

## N+series

Modul mit anpassbaren Farben-54
340-360W






**15 YEARS** 15-year product warranty
**30 YEARS** 30-year linear power output warranty
**0.4%** year 2-30 power degration

## QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2018)
ISO 9001:2015: Quality management systems
ISO 14001:2015: Environmental management systems
ISO 45001:2018: Occupational health and safety management systems

### Bifacial Energy Yield | N-type Silicon Wafer
Additional power generation from the backside of bifacial modules increases the overall energy yield

### Better low irradiance response
Superior power generation under shading conditions

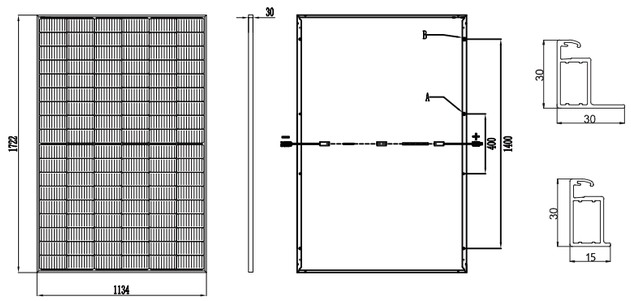
### Variety of colours (customizable)
Suitable for coloured construction

### Highly Anti PID
linear power warranty with first year ≤1% degradation and an annual degradation rate of up to 0.4% after that

### Mechanical load enhancement
Maximum wind load (2400Pa) / Maximum snow load (5400Pa)



## Technical drawing



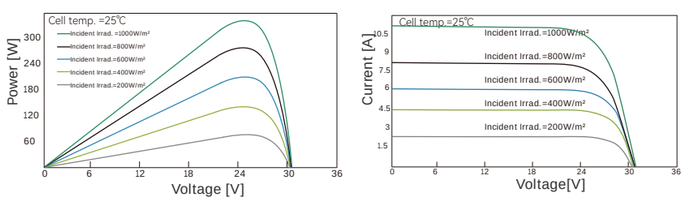

## Mechanical Specifications

| | |
|---|---|
| Solar Cells | 108(54×2) |
| Dimension | 1722 × 1134 × 30mm |
| Weight | 23.8kg |
| Front Glass | 2.0mm tempered Glass, high transparency |
| Back Glass | 2.0mm heat-tempered glass |
| Frame | anodized aluminium alloy |
| Junction Box | IP68 / 3 diodes |
| Output Cables | 4mm² / +300mm -300mm (Customized Length) |

## Electrical Characteristics

| Module Type | QM182THCD340-54 | QM182THCD345-54 | QM182THCD350-54 | QM182THCD355-54 | QM182THCD360-54 |
|---|---|---|---|---|---|
| | STC | STC | STC | STC | STC |
| Maximum Power[W] | 340 | 345 | 350 | 355 | 360 |
| Maximum Power Voltage[V] | 32.01 | 32.11 | 32.21 | 32.31 | 32.41 |
| Maximum Power Current[A] | 10.62 | 10.74 | 10.87 | 10.99 | 11.11 |
| Open circuit voltage[V] | 38.26 | 38.39 | 38.52 | 38.65 | 38.78 |
| Short Circuit Current[A] | 11.04 | 11.16 | 11.28 | 11.40 | 11.52 |
| Module Efficiency | 17.41% | 17.66% | 17.92% | 18.17% | 18.43% |
| Operating Temperature | -40℃~+85℃ | | | | |
| Maximum System Voltage | DC1500V | | | | |
| Maximum Series Fuse Rating | 25A | | | | |
| Power Tolerance[W] | 0~+5W | | | | |
| Voc Temperature Coefficient | -0.28%/℃ | | | | |
| Pmax Temperature Coefficient | -0.29%/℃ | | | | |
| Isc Temperature Coefficient | 0.04%/℃ | | | | |
| Nominal Opearting Cell Temperature | 45±2℃ | | | | |

## Characteristic




## Level

| | |
|---|---|
| Fire Performance | C |
| Security Protection | Class II |

## Packing Configuration

| | |
|---|---|
| Pallet | 36pcs/Pallet |
| Container | 936pcs/40HQ Container |

Variety of colours (customizable)

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# Mounting System

For Slate Roof

For Tile Roof

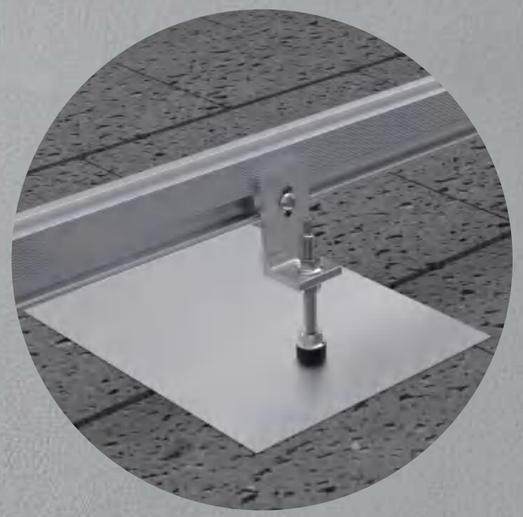
PV Cables - Durable and Safe

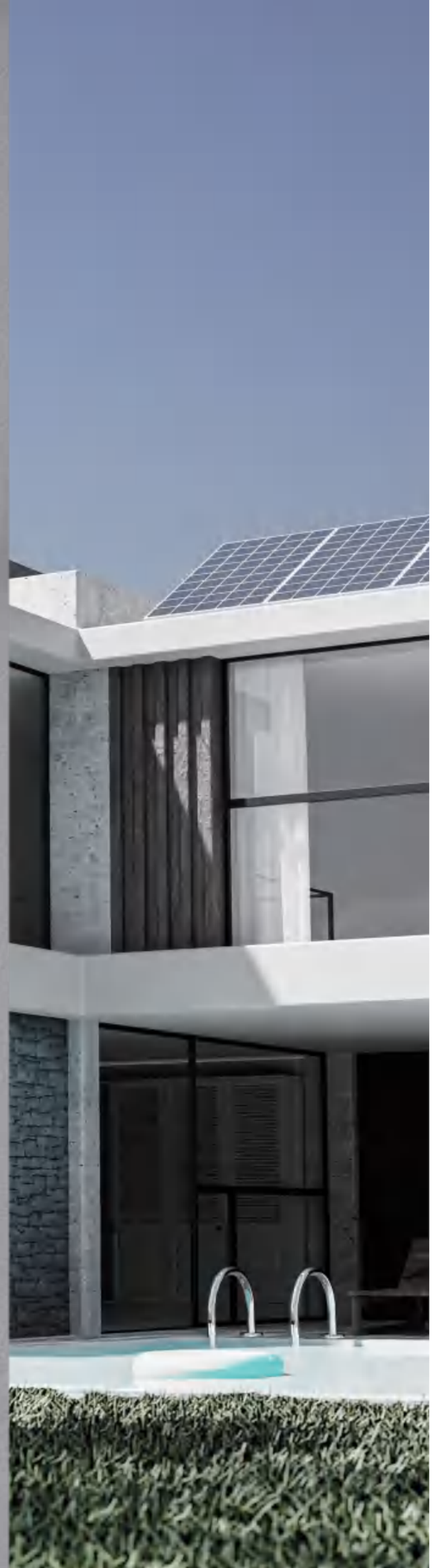
## Mounting System

# Mounting Support System Solution

For Slate Roof

12 yrs WARRANTY





- Applicable for every 3 solar panels
- Cover various rooftop layout scenaris
- High quality — TÜV Rheinland certified
- Tailored to improve design and logistic efficiency

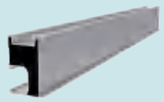



| Technical Parameters | | | |
|---|---|---|---|
| System Name | Fish Scales Tile Solar PV Mounting System | Panel Layout | Portrait/Landscape |
| Installation Site | Pitched Roof | Material | AL6005-T5(Anodized) |
| Roof Type | Tile, Flat Tile, Slate Tile, Asphalt Shingle Tile | Fastener | Anodized |
| Wind Load | 0.59KN/M2 | Small Components | AL6005-T5(Anodized) |
| Snow Load | 1.4KN/M2 | Color | Silver |
| Applicable Solar Module | Framed/Frameless, Any width panel | Warranty | 12 years |

## Component Details

**Waterproof Flashing**
GM-CH-L4
AL6005-T6/SUS304

**Rail splice**
GM-RS-79-100-GCL
AL6005-T5/SUS304

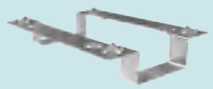


**Rail**
GM-R79
AL6005-T5

**Mild Clamp**
GM-MC-35-GCL
AL6005-T5/SUS304

**End Clamp**
GM-EC-35-GCL
AL6005-T5/SUS304

**Rail Cover**
GM-BN-C79-GCL
Silica



**Earthing Clamp**
GM-E-EL-16-GCL
SUS304

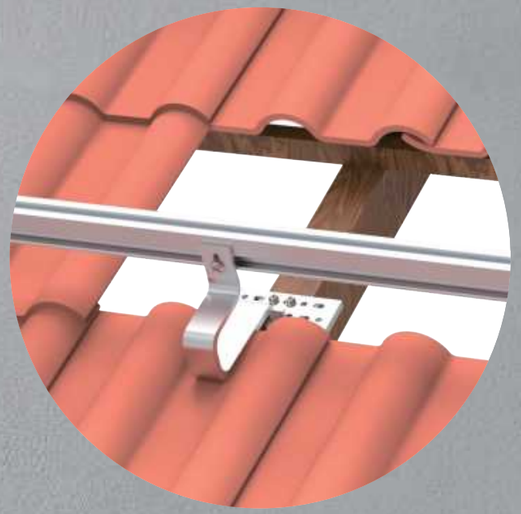
**Earth Lug**
GM-EK-GCL

## Mounting System

# Mounting Support System Solution

For Tile Roof

12 yrs WARRANTY



- Applicable for every 3 solar panels
- Cover various rooftop layout scenaris
- High quality — TÜV Rheinland certified
- Tailored to improve design and logistic efficiency




| Technical Parameters | | | |
|---|---|---|---|
| System Name | Component Details Solar PV Mounting System | Panel Layout | Portrait/Landscape |
| Installation Site | Pitched Roof | Material | AL6005-T5(Anodized) |
| Roof Type | Ceramic tile | Fastener | Anodized |
| Wind Load | 0.59KN/M2 | Small Components | AL6005-T5(Anodized) |
| Snow Load | 1.4KN/M2 | Color | Silver |
| Applicable Solar Module | Framed/Frameless, Any width panel | Warranty | 12 years |

## Component Details

**Rail Splice**
GM-CH-L4
AL6005-T5/SUS304

**Rail**
GM-RS-79-100-GCL
AL6005-T5

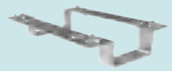
**Mild Clamp**
GM-R79
AL6005-T5/SUS304

**End Clmap**
GM-MC-35-GCL
AL6005-T5/SUS304

**Tile Hook**
GM-EC-35-GCL
AL6005-T6/SUS304
H1=75
H2=118
H3=50-55
W1=150

**Rail Cover**
GM-BN-C79-GCL
Silica

**Hook Plate**
GM-E-EL-16-GCL
ABS



**Earthing Clamp**
GM-E-EL-16-GCL
SUS304

**Earth Lug**
GM-EK-GCL

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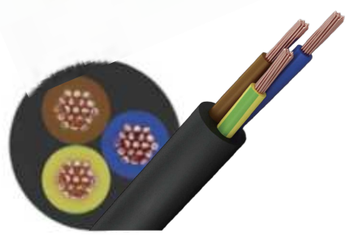
# PV Cables - Durable and Safe

### Safe
Quality Assurance,
TUV/VED certified

### Durable
UV resistance, ozone resistance, acid and alkali resistance, heat resistance

### Earthing cable (Yellow-Green)
Rated voltage: 450 / 750 V
AC test voltage: 2500V, 5min
Maximum temperature rating: 90°C
Operating frequency: 50Hz



### AC output cable
Rated Voltage: 600/1000V
Temperature range: -25°C to +90°C
Maximum voltage output: 1200V
AC test voltage: 3500V/5min

### PV cable (Black &Red)
Rated voltage: DC1500V
Temperature range: -40°C~125°C
Outer diameter: 5.5±0.1mm
Test voltage: 6500V, 5min

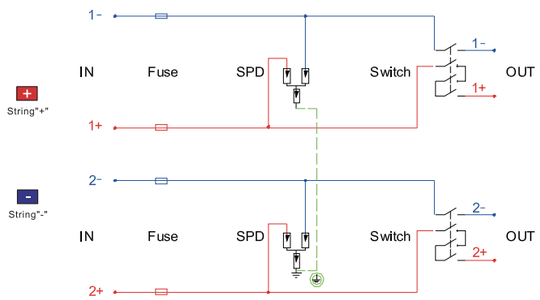


## DC Strings / Combiner Boxes For Residential PV Systems

| General Data | | DC Surge Arrester | |
|---|---|---|---|
| Model No. | PEJB-2-2 | Max Operation Voltage(Ucpv) | 1000V |
| Input | 2 String | Standard Compliance with | EN50539 |
| Output | 2 String | Maximum Discharge Current | 40KA |
| Maximum Voltage | 1000V | Type | 2 |
| Max DC Short Circuit Current Per Input | 15A~30A (changeable) | Certification | TUV, CE, CB |
| Maximum Current Output | 32A | | |
| **Enclosure** | | **DC fuse holder** | |
| Material Type | Polycarbonate/ABS | Rated Working Voltage | 1000V |
| Degree of Protection | IP65 | Rated Working Current | 15A~32A |
| Degree of Resistance to Impacts | IK10 | Fuse Link | 10×38mm |
| Dimension (WxHxD) | 386×230×120mm (18P) | Certification | CB, CE |
| Cable Input Entry | Cable Gland Ø4-8mm or MC4 | | |
| Cable Output Entry | Cable Gland Ø4-8mm or MC4 | | |
| **DC Switch Disconnector** | | **Environment** | |
| Rated Insulation Voltage(Ui) | 1000V | Operaling Temperature | -20℃~+60℃ |
| Rated Current(Ie) | 32A | Humidity | 99% |
| Category | DC21B/PV1 | Altitude | 2000M |
| Standard Compliance with | IEC60947-3 | Installation | Wall Mounted |
| Certification | UL, TUV, SAA, CE, CB | | |
| **Packing Data** | | | |
| Inside box size (L*W*D)(cm) | 236 * 115 * 390 | | |
| Weight (kg) | 3.3 | | |

## Solar DC String Box

DC 1000V / 32A, 2 in 2 out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**Weifang, China**
100MW



# Project Case

- **Huizhou, China**
  5.94 MW

- **Shenzhen, China**
  8 MW


- **Shenzhen, China**
  1.69 MW

# Project Case

- **Frankfurt, Germany**
  2x10kW / 2x11kWh

- **Frankfurt, Germany**
  12kW / 14kWh

- **Frankfurt, Germany**
  10 kW / 11 kWh

- **Lecce, Italy**
  6 kW / 11 kWh

- **Lecce, Italy**
  4.6 kW / 11 kWh

- **Udine, Italy**
  6 kW / 8 kWh



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