

# Solvion Series

## 2<sup>nd</sup> Gen Smart On-Grid Solar Inverter



# About

Servotech is dedicated to creating value through transformative change, with a commitment to advancing a green future through sustainable development and relentless innovation. Our eco-friendly products are designed to lead the way in renewable energy and electric mobility. With an extensive presence spanning over two decades we have curated high value solutions.

Our green product portfolio features comprehensive solar solutions, including solar panels, inverters, and batteries. The Solvion Series on-grid inverters are a notable addition to our robust lineup of efficient solar products, reflecting our forward-thinking approach. Recognizing the importance of integrating cutting-edge technology, we have developed these advanced on-grid inverters to complement the quality of our solar panels and efficiently power multiple households. Servotech continues to push the boundaries of solar technology, ensuring we deliver superior performance and innovation to our customers.

## Solar, Simplified with Solvion Series

Servotech's Solvion Series with its new and improved advanced technology redefines the concept of renewable power. Crafted with sincerity, built on reliability, Solvion series is a reflection of Servotech's long lasting legacy of technology driven reliable and durable products.

### Here is why you should choose us :

- **Industry Leader:** As a pioneering solar solutions provider, Servotech leads innovation in the renewable energy sector, with products trusted by customers globally.
- **Precision Engineering:** Our single-phase on-grid inverters are expertly crafted for efficient energy conversion, ensuring maximum power output from your solar panels.
- **High Efficiency:** Designed with a focus on optimal performance, Servotech inverters provide high energy conversion rates, lowering electricity costs and maximizing your solar investment.
- **User-Friendly Design:** Featuring easy-to-use interfaces and simple installation, our inverters offer a seamless experience, making solar power accessible and convenient for all households.

# Solvion Series

## Single Phase On-Grid Solar Inverter



Enhance the efficiency and precision of your solar system with Servotech's cutting-edge On-Grid Solar Inverters. Our Solvion Series, ranging from 1kW to 6kW, is engineered for seamless integration with residential solar setups. Designed to optimize energy conversion, these inverters feature a clear LCD screen, easy remote settings, and intuitive graphics on both web and app platforms. Enjoy versatile communication options including Wi-Fi, P2P, LAN, GPRS, and RS485. Trust Servotech to elevate your solar power generation with top-tier performance and innovation.



**Power generation monitoring**



**IP65 protection**



**Power export limit**



**Big LCD display**

# Solvion Series

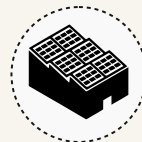
Single Phase On-Grid Solar Inverter



## APPLICATION



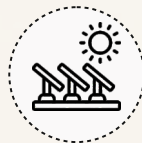
**Residential  
Rooftops**



**Commercial  
Buildings**



**Educational and  
Institutional Buildings**



**Community  
Solar Projects**



**Wide Input  
Voltage Range**



**Power export  
limit**



**Compact and  
easy to install**



**Wifi/GPRS/Lan  
communication  
optional**

**Range Available**

**1kW | 2kW | 3kW**

**4kW | 5kW | 6kW**

[www.servotech.in](http://www.servotech.in)



# Solvion Series

## Single Phase On-Grid Inverter

### Technical Specifications

ST-ONGINV1KW/S1 / 2KW / 3KW / 4KW / 5KW / 6KW						
Model No	1KW/S1	2KW/S1	3KW/S1	4KW/S1	5KW/S1	6KW/S1
<b>DC Side / Input Parameters</b>						
Max DC power (W)	1500W	3300W	4500W	6600W	7500W	7500W
Max DC voltage (Vdc)	550	550	550	550	550	550
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~500	100~500	100~500	100~500	100~500	100~500
Max. input current (A)	18A			22A		
Max.input short circuit per MPPT	25A			30A		
Number of MPP trackers	1					
Strings per MPP tracke	1					
<b>AC Side / Output Parameters</b>						
Nominal output power (W)	1000	2200	3000	4000	5000	6000
Maximum output power (W)	1100	2420	3300	4400	5500	6600
Nominal output voltage/range (V)	208,220,230,240/180~270					
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz					
Maximum output current (A)	6	12	16	21	23	28
AC connection (with PE)	Single phase					
Current distortion(THDi) Power factor	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%
Power factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)					
<b>Efficiency</b>						
Maximum conversion efficiency	97.30%	97.40%	97.50%	97.80%	97.50%	97.60%
European efficiency	97.00%	97.10%	97.20%	97.30%	97.20%	97.30%
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
<b>Safety and Protection</b>						
DC reverse-polarity protection	Yes					
Anti-islanding / Overvoltage protection						
Short circuit protection						
Leakage current protection						
Grid monitoring / Ground fault monitoring						
Efficiency						
DC/AC side SPD(thermally protected)						
<b>General Parameters</b>						
Dimension (L/W/H)(mm)	300/294/104			370/318.5/105.5		
Weight (kg)	5			7		
Embedded DC Switch	Optional					
Night power consumption (W)	< 0.2					
Isolation type	Transformerless					
Protection degree	IP65 according to IEC60529					
Operation temperature (oC)	-25 ~ +60					
Cooling concept	Smart Cooling					
Operatiing Altitude (m)	<2000m without power derating					
Acoustic noise level (dB)	< 25					
Display	Graphic LCD					
Communication Interface	Standard WIFI; RS485 (optional)					
Warranty	Standard 5 years; 7/10 years optional					

# Solvion Series

## Three Phase On-Grid Solar Inverter



Boost the efficiency and precision of your solar system with Servotech's advanced On-Grid Solar Inverters. Our Solvion Series, available from 5 to 25 kW, is designed for flawless integration with residential & commercial solar installations. These inverters optimize energy conversion and come equipped with a clear LCD screen, easy remote controls, and user-friendly graphics on both web and app interfaces. Benefit from versatile communication options, including Wi-Fi, P2P, LAN, GPRS, and RS485. Trust Servotech for superior solar power performance and innovation.



**Power generation monitoring**



**IP65 protection**



**Power export limit**



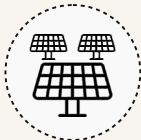
**Big LCD display**

# Solvion Series

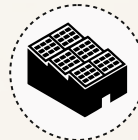
Three Phase On-Grid Solar Inverter



## APPLICATION



**Small Scale  
Three Phase  
Solar Projects**



**Commercial and  
Industrial System**



**Educational and  
Institutional Buildings**



**Agricultural  
Use**



**Wide Input  
Voltage Range**



**Power export  
limit**



**Compact and  
easy to install**



**Wifi/GPRS/Lan  
communication  
optional**

**Range Available**

**5kW | 6kW | 8kW | 10kW**

**15kW | 20kW | 25kW**

# Solvion Series

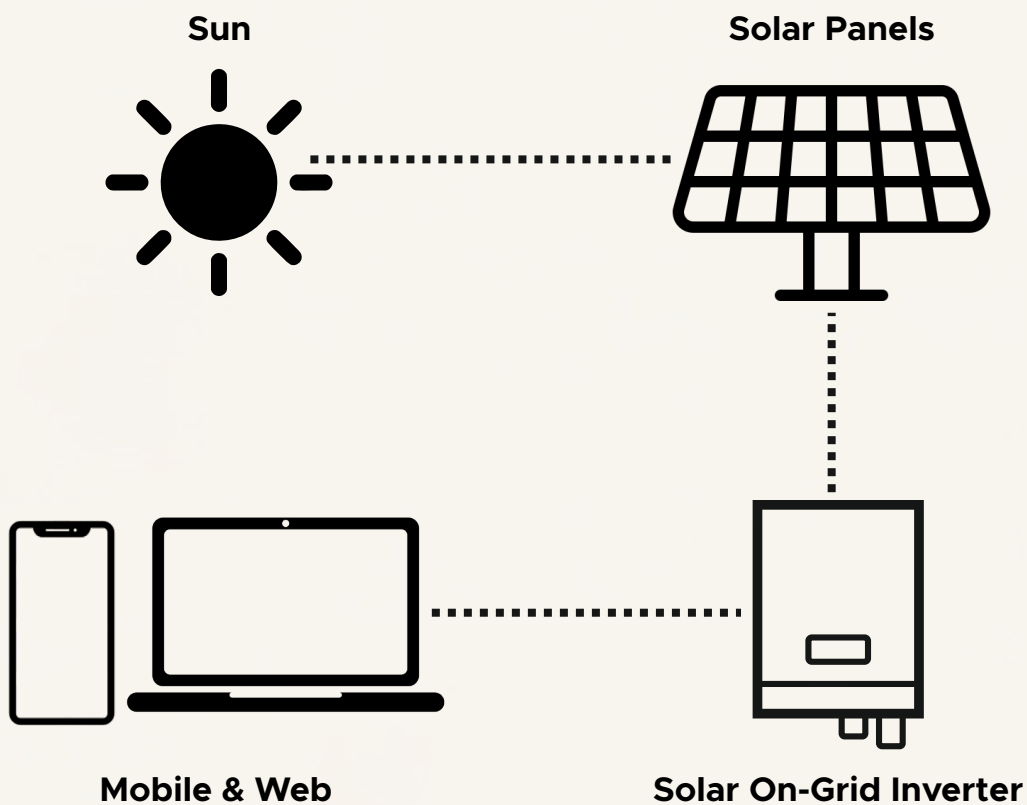
## Three Phase On-Grid Solar Inverter

### Technical Specifications

ST-ONGINV5KW/S3 - 6KW / 8KW / 10KW / 15KW / 20KW / 25KW							
Model No	5KW/S3	6KW/S3	8KW/S3	10KW/S3	15KW/S3	20KW/S3	25KW/S3
<b>Input ( DC)</b>							
Max DC power (W)	5500W	9500W	11500W	11500W	22500W	30000W	30000W
Max DC voltage (Vdc)	1000Vd.c.					1000Vd.c.	
Min working voltage (Vdc)	160Vd.c.					250Vd.c.	
MPPT voltage range (Vdc)	160...850Vd.c.					200...850Vd.c.	
Max input current / per string (A)	18A/18A					26A/26A	36A/26A
Max.input short circuit per MPPT	25A/25A					34A/34A	46A/34A
Number of MPP trackers	2					2	
Strings per MPP tracker	1					2	
<b>Output (AC)</b>							
AC nominal power (W)	5000	6000	8000	10000	15000	20000	25000
Max AC apparent power (VA)	6000	7000	8800	11000	16500	22000	27500
Max output current (A)	10	12	15	17	23	30	36
Nominal AC output	50/60 Hz; 400 Vac					50/60 Hz; 400 Vac	
AC output range	45/55 Hz ; 280 ~ 490 Vac (Adj)					50 Hz ; 280 ~ 490 Vac	
Power factor	0.8leading...0.8laging					0.8leading...0.8laging	
Harmonics	< 5%					< 1.5%	
Grid type	3 W/N/PE					3 W/N/PE	
<b>Efficiency</b>							
Max efficiency	98.00%	98.20%	98.30%	98.40%	98.40%	98.50%	98.50%
Euro efficiency	97.50%	97.70%	97.80%	97.90%	98.00%	98.10%	98.20%
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
<b>Safety and Protection</b>							
DC reverse-polarity protection	Yes					Yes	
DC breaker							
DC/AC SPD							
Leakage current protection							
Insulation Impedance Detection							
Residual Current protection							
<b>General Parameters</b>							
Dimension (W/H/D)(mm)	480*476*157					520*510*160	
Weight (kg)	16					23	
Operating temperature range oC	-25 ~ +60					-25 ~ +60	
Degree of protection	IP65					IP65	
Cooling concept	Smart Cooling					Smart Cooling	
Topology	Transformerless					Transformerless	
Display	LCD					LCD	
Humidity	0-95%, no condensation					0-95%, no condensation	
Communication	RS485/WiFi/GPRS					RS485/WiFi/GPRS	
Warranty	Standard 5 years; 7/10 years optional					5 years; 7/10 years optional	



# Monitor your solar system 24x7 No matter where you are!



Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform.

