SERVOTEC
smart power solutions

Servotech Advanced
On-Grid & Hybrid
Solar Inverters

Servotech Renewable Power System Ltd.

www.servotech.in

Our Company

Servotech Renewable Power System Ltd. (Formerly known as Servotech Power Systems Ltd.) is committed to driving transformative change by fostering a green future through sustainable development and continuous innovation. Our eco-friendly products are designed to lead the charge in renewable energy and electric mobility. With over two decades of industry expertise, we have crafted high-value solutions that make a meaningful impact.

Our product portfolio includes comprehensive solar solutions such as Solar Panels, Solar Inverters, ESS, AC & DC EV Chargers, Servo Stabilizers, Solar Batteries. A standout in this lineup are the newly launched inverters which exemplify our forward-thinking approach. These advanced inverters are designed to seamlessly integrate with our high-quality solar panels, efficiently powering multiple households. Servotech remains at the forefront of Solar & EV Charging technology, consistently delivering superior performance and innovation to our customers.

Our Mission

Our vision, 'Produce Green to Live Green', is to lead the global transition to net-zero emissions. We are committed to creating and introducing world-class renewable energy solutions that eliminate reliance on fossil fuels, ensuring a sustainable future for generations to come.

Our Vision

To provide the most advanced cutting-edge technological and innovative solutions for a sustainable future. To empower our skilled workforce through knowledge sharing, associations, and collaborations to help society embrace the change of energy transition.

Our Esteemed Partners

And Many More...

Solvion Series

Single Phase On-Grid Solar Inverter

APPLICATIONS

- **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

Solvion Series Single Phase On-Grid Solar Inverter

Technical Specifications

	ST-ONGINV1KW / S1 / 2KW / 3KW / 14KW / 15KW / 6KW					
Model No.	**1kW/S1**	**2kW/S1**	**3kW/S1**	**4kW/S1**	**5kW/S1**	**6kW/S1**
DC Side / Input Parameters						
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					
AC Side / Output Parameters						
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)					
Efficiency						
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%
Safety and Protection						
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)						
General Parameters						
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 8 years; 10 years optional					

Solvion Series

Three Phase On-Grid Solar Inverter

APPLICATIONS

- 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

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	**5kW/S3**	**6kW/S3**	**8kW/S3**	**10kW/S3**	**15kW/S3**	**20kW/S3**	**25kW/S3**
Input (DC)							
Max DC power (W)	55OOW	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	
Output (AC)							
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)					5 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	
Efficiency							
Max efficiency	98.00%	98.20%	98.30%	98.40%	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%
Safety and Protection							
DC reverse-polarity protection	Yes					Yes	
DC breaker							
DC/AC SPD							
Leakage current protection							
Insulation Impedance Detection							
Residual Current protection							
General Parameters							
Dimension (W/H/D)(mm)	480*476*157					520"510*160	
Weight (kg)	16					23	
Operating temperature range oC						-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; 8/10 years optional	

Power Gitter Pro Series

Three Phase On-Grid Solar Inverter

Core Features

- Maximum efficiency upto 99.09%
- 100% In-house R&D, production & testing facility
- IP 65 with fire, water & 1k 10 resistance cabinet
- Wide DC & AC voltage range
- 100% indian design to work in harsh conditions

Power Gitter Pro Three Phase On-Grid Solar Inverter

Technical Specifications

Three Phase (30kW - 60kW)							
Model	**30kW/S3**	**33kW/S3**	**35kW/S3**	**40kW/S3**	**45kW/S3**	**50kW/S3**	**60kW/S3**
Input (DC)							
Max Peak DC Input Power (KW)	36	39.6	42	48	54	60	60
Max. DC I/P (V dc)	1100Vdc						
Max. MPPT I/P Current (A)	30A						
MPPT Short Circuit Current (A)	46A						
MPPT Tracking Voltage (Vdc)	200-1000Vdc						
Min. Start Voltage (V)	200Vdc						
Number of MPPT Tracker	3			4			
Strings per MPPT Trackers	2						
Output (AC)							
Rated output power (kw)	30	33	35	40	45	50	60
Rated Grid Voltage (V)	380V-400V (300V - SOOV)						
Nominal Grid Freq.(Hz)	50Hz/60Hz						
Max. output Current AC (A)	43.35	47.68	50.57	57.80	65.02	72.25	86.70
AC Connection (With PE)	3P + N + E						
THDI (%)	<3% (At Rated Power)						
Output Power Factor (%)	0.8 Leading... 1. 0.8 Lagging						
Efficiency							
Max. Conversion Eff.(%)	98.0			98.7			
Max. Euro Efficiency (%)	97.5			98.3			
Protection							
Anti-Islanding Protection	Yes Integrated						
Insulation Resistance Detection	Yes Integrated						
Residual Current Monitoring	Yes Integrated						
Over Voltage Protection	Yes Integrated						
DC Switch	Inbuilt						
Surge Protection	MOV / SPD / Filters						
General Data							
Dimensions(W*H*D) mm	580*435*242mm						
Weight (Kg)	40Kg						
Noise Emission (db)	<30dB						
Display	LED with LCD Display						
DC Connection Type	MC-4						
AC Connection Type	Terminal Block						
Communication Interface	WiFi/ GPRS/ RS 485						
Cooling Method	Natural Convection / Smart Fan Cooling						
Operating Ambient	-25 C - +60°C						
Relative Humidity	0% - 100%						
Max. Operating Altitude(m)	2000 (>2000 Derating)						
Protection Class	IP65						
Night Stand By Power Consumption (w)	<1						
Standard Warranty	Standard 5 years; 8/10 years optional						

Power Gitter Mega Series

Three Phase On-Grid Solar Inverter

Core Features

- Inbuilt AC/DC SPD'S with DC fuse
- IP65 & IP66 dynamic intelligent cooling & string level monitoring
- Individual string level monitoring RMS available
- Suitable for high watt peak panels mono perc, TOPcon & bifacial
- 100% In-house R&D, production & testing facility

Power Gitter Mega Three Phase On-Grid Solar Inverter

Technical Specifications

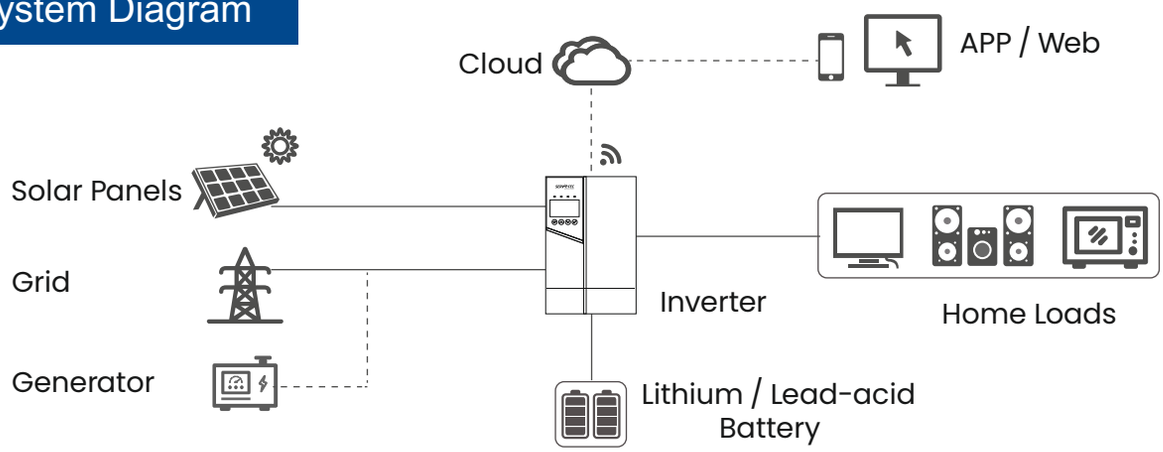
Three Phase (60kW - 110kW)							
Model	**60kW/S3**	**70kW/S3**	**75kW/S3**	**80kW/S3**	**90kW/S3**	**100kW/S3**	**110kW/S3**
Input (DC)							
Max Peak DC Input Power (KW)	72	84	90	96	100	120	130
Max. DC I/P (V dc)	1100Vdc						
Max. MPPT I/P Current (A)	36A			48A & 36A		60A	
MPPT Short Circuit Current (A)	45A			60A & 45A		75A	
MPPT Tracking Voltage (Vdc)	250-1000V						
Min. Start Voltage (V)	250VDC						
Number of MPPT Tracker	4						
Strings per MPPT Trackers	3			4+3		5	
Strings Level Monitoring	Inbuilt						
Output (AC)							
Rated output power (kw)	60	70	75	80	90	100	110
Rated Grid Voltage (V)	400V (300V - SOOV)						
Nominal Grid Freq.(Hz)	50Hz/60Hz						
Max. output Current AC (A)	86.7	101.2	108.4	115.6	130.1	144.5	159.0
AC Connection (With PE)	3P + N + E/ 3P + E						
THDI (%)	<3% (At Rated Power)						
Output Power Factor (%)	0.8 Leading... 1. 0.8 Lagging						
Efficiency							
Max. Conversion Eff.(%)	98.9						
Max. Euro Efficiency (%)	98.5						
General Data							
Dimensions(W'H'D) mm	705'650'283mm					800*672"315mm	
Weight (Kg)	75kg					85kg	
Noise Emission (db)	<60dB						
Display	LED Indications for IP66/ LCD Optional						
DC Connection Type	MC-4						
AC Connection Type	Terminal Block						
Communication Interface	WiFi/ GPRS/ RS 485 / String level Monitoring						
Cooling Method	Inteligent Force Cooling + Natural Cooling						
Operating Ambient	- 25°C - +60°C						
Relative Humidity	0% - 100%						
Max. Operating Altitude(m)	5000 (>4000 Derating)						
Protection Class	IP66/ IP65						
Night Stand By Power Consumption (w)	<5						
Standard Warranty	Standard 5 years; 8/10 years optional						
Protection							
Safety Standard	Yes Integrated						
Environment Protections	Yes Integrated						
Anti-Islanding Protection	Yes Integrated						
Insulation Resistance Detection	Yes Integrated						
Residual Current Monitoring	Integrated / Inbuild						
DC Switch	Supported						
Surge Protection	DC/AC : Type II (DC Fuse)						

Sparkle Series

Single Phase Hybrid Solar Inverter

- Built-in 100A Solar Charger
- Wide MPPT Range 40-500V
- Workable with Generator
- BMS Support Lithium/ Lead-acid Battery
- Lithium Battery Activation
- Detachable Dust Cover
- WiFi Monitoring

System Diagram



Sparkle Series Single Phase Hybrid Solar Inverter

Technical Specifications

Model	STAG-HYBINV-5048/S11
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	3.6
Surge Power (kVA)	7.2
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/ 60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input Current / Input Power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 ℃~ 50 ℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 ℃~ 60 ℃
Net Weight (kg)	6.4
Dimensions (W*H*D)	490*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)
Standard Warranty	Standard 5 years

Sparkle Series

Single Phase Hybrid Solar Inverter

Capacity 6.5kW

Built-in 120A Solar Charger

Wide MPPT Range 60-500V

28A MAX PV Input

DUAL IN OUT
Dual AC In & Dual AC Out*

BMS
Support Lithium/ Lead-acid Battery

Lithium Battery Activation

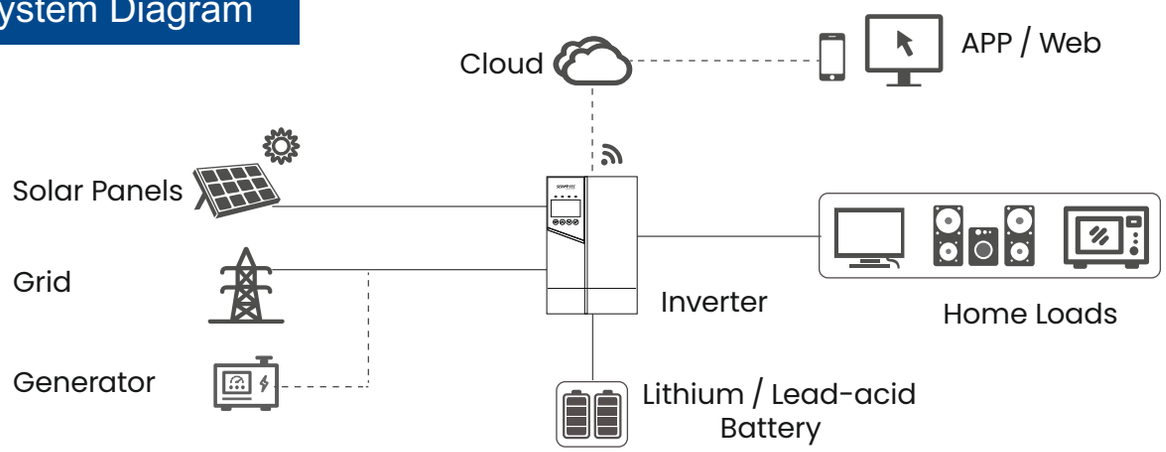
Noise Control Algorithm

WiFi Monitoring

Feed-in to Grid

*Extra interface can be selected as in or out. It cannot support at the same time.

System Diagram



Sparkle Series Single Phase Hybrid Solar Inverter

Technical Specifications

Model	STAG-HYBINV-8748/S11
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	10min@102%~120%Load, 1min@120%~150%Load 10S@150%~200%Load, 5s@＞200%Load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	28A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / USB / Dry Contact / CT / Meter /
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 ℃~ 50℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 ℃ ~ 60 ℃
Net Weight (kg)	10
Dimensions (W*H*D)	508*338*136.5mm
Max. Operating Altitude	4000m (Derating above 1000m)
Standard Warranty	Standard 5 years

Amalgam Series

Single Phase Hybrid Solar Inverter

MPPT

Built-in two MPPT (6kW-11 wide PV input range: 60~450VDC

Easy to use

Configurable AC/PV output usage time and prioritization

On & Off-Grid

REVO VM IV series is suitable for on & off-grid applications

Battery

Battery equalization function extend life cycle Reserved communication port (RS485,CAN for BMS

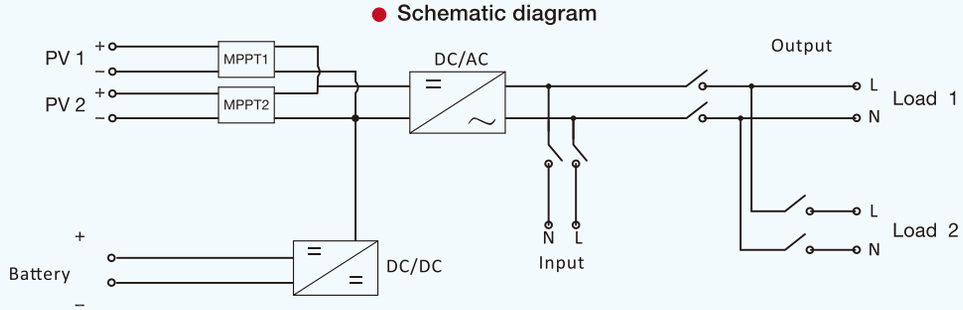
Parallel function

Parallel operation up to 6 units

Easy access

Communication WiFi or bluetooth Touchable button with large 5" colorful LCD

● Schematic diagram



Amalgam Series Single Phase Hybrid Solar Inverter

Technical Specifications

Model	STAG-HYBINV-10048/S11
Rated Power	10000VA
AC INPUT	
Nominal Voltage (VAC)	230VAC
Voltage range (VAC)	170~280VAC / 90~280VAC
Frequency range (Hz)	50/60Hz
AC OUTPUT	
Surge power	16000
Output voltage (VAC)	220/230/240
Output wave form	Pure sine wave
Rated Frequency (Hz)	50/60
Efficiency (Peak)	93% max
Transfer time	10ms typical(narrow range);20ms typical (wide range)
BATTERY	
Nominal DC voltage (VDC)	48
Floating charge voltage (VDC)	54
Overcharge protection (VDC)	63
Battery type	Lithium & Lead-acid
SOLAR CHARGER & AC CHARGER	
Max.PV array open circuit voltage (VDC)	500
Max.PV array power (W)	10000W(5000*2)
MPPT input voltage range@operating (VDC)	60-450
Max.input current (A)	27*2(Max 40A)
Max.solar charging current (A)	120
Max.AC charging current (A)	120
Max.charging current (A)	120
DISPLAY INTERFACE	
Parallel function	up to 6 units
Communication	Standard:RS232,CAN&RS485;Optional:WiFi,Bluetooth
Display	5"colorful LCD
ENVIRONMENT	
Humidity	5~90%RH (No Condensing)
Operating Temperature	-10°C to 50°C
Net Weight (KG)	18.8
Dimensions D x W x H (mm)	420*561.6*152.4
Standard Warranty	Standard 5 years

Fusion Series

Three Phase Hybrid Solar Inverter

Core Features

- Bidirectional Inverter
- Built-in isolation transformer
- Grid Utilization
- Battery Less Operation
- IGBT Based Rectifier
- Advanced Multiple DSP
- Support Multiple Input
- Monitoring Features

APPLICATIONS

- Petrol Pump
- Cold Storage
- ATM
- Farm House
- Rural Bank
- Health Care Center
- Hostel of School & College
- Microgrid

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Fusion Series Three Phase Hybrid Solar Inverter
Technical Specifications

FUSION SERIES THREE PHASE HYBRID SOLAR PCU TECHNICAL SPECIFICATION																	
INVERTER CAPACITY (kVA)	**5**	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**60**	**80**	**100**	**120**	**150**	**200**	**250**	**300**
GRID																
Input Wiring	3PH five wire (3 PH + N + E)															
Input Neutral Requirement	YES															
Nominal Voltage	330V to 450V FOR 3PH															
Grid Frequency Sync Range	50 Hz (6%)															
Unity power Factor for grid	Near to Unity															
Operating condition	Continuous															
Input Fault Level	>=10 kA															
Self-Consumption	up to 4%															
Charger Peak Efficiency	upto 95%															
DG Compatibility	YES (Double of Inverter Capacity)															
Grid Compatibility	YES SAME AS INVERTER CAPACITY															
Input Voltage distortion allowed	LESS THAN 3%															
Grid Chargercapacity	50 % of KVA rating															
SOLAR																
Charger Type	MPPT															
Max PV Connection in kWP	5	10	15	20	25	30	40	50	60	80	100	120	150	200	250	300
Max PV Voltage (VOC)	250V	300V	500V	500V	500V	500/600V	500/600V	500/600V	500/600V	500/600V	500/600V	500/600V	600V	900V	1100V	1100V
MPPT Voltage Range	120-180V	165-250V	300-450V for 240VDC / 450-600V for 360VDC OR 384VDC											800 - 1000V		
MPPT Modes Available	3 (Selectable)															
No of MPPT Channel	1								2	2	2	2	2	3	3	3
Panel Reverse Protection	Yes															
Solar Charger Efficiency	up to 95%															
BATTERY																
Nominal Battery Voltage (VDC)	96	120		240		360	360 / 384							480/600	576 / 600	
Battery Buffer Setting	DC Voltage Selectable Through kay pad															
Grid Charging Current	Setteble Through Key Pad															
Temperature Compensated	YES															
Battery Charging Voltage	Selectable from LCD Display															
Type & No. of cells	Lead Acid / VRLA / Ni-Cd/ Lithium Ion															
BMS compatible	YES															
OUTPUT																
Load Power Factor	Unity (kVA = kW)															
Output Voltage (Inverter Mode)	415V AC 2 %															
Output Frequency (Free Running)	50 Hz 1%															
Output Waveform	Pure Sine wave															
Peak Inverter Efficiency (Full Load)	upto 90 %															
Total Harmonic Distortion	upto 3% at Linear Load															
Overload Capacity	125% for 60Sec, 150% for 5 Sec															
Changeover Time (Full load)	10 msec															
DC to AC Galvanic Isolation	In built Isolation Transformer at Inverter Output															
Anti Islanding Function	In Compliance with IEC 62116															
Auto Bypass feature	YES															
Unbalance load handaling	YES															
Duty	Continuous															
CONFIGURATION																
Modes Available	Grid saving, Battery backup, Export															
power Export to Grid	Enable / Disable option Available															
power import from Grid	Enable / Disable option Available															
ENVIRONMENTAL																
Acoustic Noise Level from 1 m	≤ 65 dB															
Operating Temperature	0 to 40 Deg C(Dust free cooled and dry environment)															
Storage Temperature	-10 Deg C to 60 Deg C															
Relative Humidity	Up to 95 % (Non Condensing)															
Altitude	< 1000 meter above sea level															
Sysmic Requirement	upto 0.5g															
PHYSICAL																
Enclosure Protection Grade	IP 20 Compatible to IEC 60529:2001-02- As per MNRE Requirement															
Enclosure Thickness	as per industrial standard															
Cooling	Forced Air															
Colour	RAL 7016						RAL 9016									
Cable Entry	Bottom															
Parametersdisplayed on LCD																
Input Group	1. Voltage, 2.Current, 3. Frequency, 4. kW, 5. kVA, 6. Import kWh , 7. Export kWh, 8. PF															
Inverter Group	1. Voltage, 2. Current, 3. Frequency, 4. kVA															
OutputGroup	1. Voltage, 2. Frequency															
OutputGroup	1. Solar Voltage , 2. Solar Current, 3. Power(kW), 4. Solar Energy (kWh)															
Battery Group	1. Voltage, 2.Current 3. SoC															
PROTECTIONS																
ELECTRICALPROTECTIONS	CIRCUITBREAKER and Fuse															
ELECTRONICPROTECTIONS																
	Alarms are provided for all important protections.															
inverter Group	1.Input Under Voltage, 2.Input Over Voltage, 3. Charger Over Voltage, 4. Under /Over Frequency															
inverter Group	1. Output Under Voltage,2.Output Over Voltage 3. Overload, 4. Output short Circuit, 5. Inverter Over Temperature															
Solar Group	1. Surge Protection , 2. Reverse PV Pannel protection															
Battery Group	1. Battery low , 2. Battery Over charge 3.,Battery Charging Current limit															
CONNECTIVITY																
Communication	RS 232 or RS 485															
Protocol	MODBUS RTU															
LCD with backlight & Tactile key	YES															
Testing Standard	IEC -61683:1999, IEC- 60068-2-1, IEC-60068-2-2, IEC-60068-2-14, IEC-60068-2-30- As per MNRE Requirement															
Saftey Factor	1 for electronic devices, 1 for electrical															
Earthing Connection (Ref. is 3043)	Earth terminal block				25- 40 kVA : 3 x 25 mm GI (Earth bus bar running along the panel)			45-150 kVA : 6 x 50 mm GI (Earth bus bar running along the panel)						200-300KVA: 6 x 50 mm GI (Earth bus bar running along the panel)		
Illumination lamp	N.A.							11 W CFL								
Gland Plate	NA							3 mm MS C.R.C.A.								
Utility Socket	NA							5 A / 230 VAC								
Dimensions (in mm)																
KVARating	5	10	15	20	25	30	40	50	60	80	100	120	150	200	250	300
Width (W)	450	450	450	450	450	450	600	800	800	1100	1100	1100	1565	1570	2900	2900
Depth (D)	800	800	800	800	950	950	1000	950	950	800	800	800	850	850	850	850
Height (H)	800	800	800	800	800	800	1300	1700	1700	1900	1900	1900	1900	1900	1900	1900
Weight (Kg) APPROX.	125	150	150	300	350	350	650	650	700	850	900	1000	1200	1400	1500	1600
Add on ACCESSORIES (not standard Part fo inverter)																
	1)GSM Based Remote Monitoring, 2.) 2) Modbus RS485 3) RADIATION SENSOR (Pyranometer) 4) SMOKE DETECTOR. 5) IP 42 Enclosure and															

Servo Stabilizer

Core Features

Voltage Adjustments with High Efficiency

Under stern instances of imbalanced voltage or current, it produces a fully stable output.

Surge Protector

Equipped with a surge suppressing device to protect electronic equipment against voltage spikes occurring inside the alternating current (AC) utility lines.

Cost-Effective Power

Comes with a rating that ranges between 10KVA to 1000KVA that promises stable power supply at minimal costs.

Adjustable Output Voltage

Engineered with an option to adjust fluctuating voltage outputs, the device helps in reducing the failure rate of electrical equipment.

Improved Operational Life

The device has a long lifespan even when used at full loads in comparison to conventional make servo voltage stabilizers.

AIR COOLED SERVO STABILIZER

Servotech's Air-cooled Servo Stabilizer is a device with three-phase air cooling available with capacities ranging up to 250kVA. This environment-friendly, cost-effective device offers an efficiency of >95%.

OIL COOLED SERVO STABILIZER

Servotech's Oil-cooled Servo Stabilizers change the level of voltage in a clockwise or anticlockwise manner using a strong AC synchronous motor for precise voltage management. These three-phrase stabilizers have a long-lasting motor-controlled stabilization technology that ensures safe voltage delivery.

Servo Stabilizer
Technical Specifications

TECHNICAL PARAMETERS	SINGLE PHASE	THREE PHASE	CUSTOMIZED
Rating : 2 kva to 2000 kva	**2 KVA to 60 KVA**	**10 KVA to 2000 KVA**	
Input Voltage Range	195 V-280 V AC	340 V-480 V AC	As per client requirement
	170 V-280 V AC	300 V-480 V AC	
	155 V-280 V AC	270 V-480 V AC	
	140 V-280 V AC	240 V-480 V AC	
	110 V-280 V AC	190 V-480 V AC	
	100 V-280 V AC	175 V-480 V AC	
Output Voltage	230 V	400V	Yes
Output Adjustable	220-240 V AC	380-415 V AC	Yes
Output Regulations	+2%	+2%	Yes
Type	Unbalanced Type		Yes
Insulation	Class A / Class B		Yes
Vector Group	Star / Star , 3 Phase + Neutral		Yes
Frequency Hz	47 Hz -53 Hz		Yes
Nature of Cooling	Air Cooled Servo Stabilizer		Yes
	Oil Cooled Servo Stabilizer		Optional
Construction	Servo Motor		Yes
Effect of Power Factor	Nil		Yes
Wave Form Distortion	Nil		Yes
Control Circuit	Micro Controller Based Digital Circuit and Control		Yes
Response Time	10 ms or As per IS 9815 Standards		Yes
Voltage Correction Rate for Air Cooled Servo Stabilizer	15 -20 Volts / Sec		Yes
Voltage Correction Rate for Oil Cooled Servo Stabilizer	8 -12 Volts / Sec		Yes
Metering	Seven Segment Display		Yes
General Efficiency of our Servo Stabilizer	Better than 95 % or As per IS 9815 Standards		Yes
Ambient Temperature	0 — 55 Degree C		Yes
Protection	Under / Over Voltage Cut off Protection		Yes
	Single Phase Prevention		Yes
Optional Protection	Overload / Short Circuit Protection		Optional
	Manual Bypass — Changeover		Capacity
	Input MCB/MCCB		Optional
Installation Type	Indoor		Yes
	Outdoor		Optional

Our Other Solar Product Range

Range Available : 1kVA - 5kVA

ELEGANT SERIES

OFF-GRID PWM SOLAR INVERTER

PLUS/UNIK

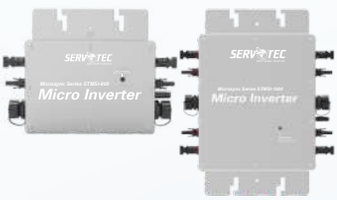
True CV PWM
LCD Display
Advanced DSP Technology
AI Charge Sharing
5 Stage Battery Charging

Range Available : 1kVA -1 50kVA

FLARE SERIES

OFF-GRID MPPT SOLAR INVERTER

True MPPT
Configurable User Settings
Advanced DSP Technology
AI Charge Sharing
Remote Monitoring IoT



Range Available : 800 W | 1600 W

MICROSYNC SERIES

SOLAR MICRO INVERTER

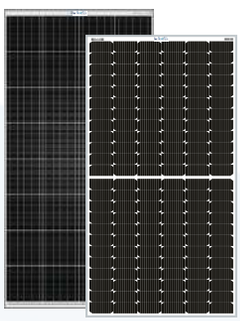
Smart display
High-precision phase detection
Best-in-class reliability
Cloud-based performance monitoring for each panel
Multiple parallel stacking
Digital control system
Intelligent monitoring management
Waterproof protection- shell of the microinverter is made of pure aluminium alloy with a low-resistance copper core

Range Available : 4.8kW | 100kW

SERVLITH SERIES

ENERGY STORAGE SYSTEMS

Energy storage device
Smoke free
Alternative for genset
Long life
High performance
Rechargeable
Easy installation and maintenance
Remote monitoring and data access on mobile app
Fast charging
Environment friendly
PV energy storage system



Range Available : 390Wp to 415Wp
Range Available : 445Wp to 590Wp

SOLAR PANELS

MONO HALF CUT/ MONO PERC

Upto 21.21% Efficiency
Round Ribbon for Better Efficiency
Minimizes Micro Cracks
M10 Mono PERC Cells
Works Even in Partial Light
Reduces BOS & Installation Cost

Range Available : 40Ah - 250Ah

SOLAR TUBULAR BATTERIES

PPCP Container
High Porosity Envelop Seperators
Microporous Ceramic Vent Plug
High Tensile, Acid Resistant Polyester Gauntlet
Low Resistance Fasteners
Heavy Duty Terminal

Range Available : 670Wp - 700Wp

SOLAR PANELS

TOPCon Series

TOPCon Series
Half Cut Cell Design with Multi Bus Bar Technology
High Power Generation
Excellent Weak Light Performance
Lower LCOE & BOS
Low LID
Better Mechanical Rigidity
Enhanced Mechanical Load Capacity
PID Free Guarantee

Range Available :
Single Phase - 2.2kW | 4.0KW
Three Phase - 2.2kW | 4.0kW | 5.5kW | 7.5kW
11kW | 15kW

SUNFARM SERIES

VFD-SOLAR PUMP CONTROLLER

Built-in MPPT Solar Charger
Wide DC Voltage Range- 150V-400/ 250V-800V
Pump Speed Control
Workable with Generator
System Protection
Simple Installation and easy maintenance
Automatic Operation

Our EV Product Range

AC Chargers

SPARK

International standard AC chargers crafted for everyday convenience, offering safe charging design, compact build, and stable power output. Engineered to protect your EVs, our future-ready AC chargers power both light electric vehicles and four wheelers with unmatched reliability, efficiency, and ease of charging.

7.2kW Charger

- Compatible with 4 wheelers
- User authentication through WiFi/GSM/OCPP1.6/RFID
- Input voltage: 230 VAC, 50Hz
- Single Phase

10kW AC 001 Charger

- Supports BEVC-AC001 Specifications
- Compatible with 2/3 wheelers
- User authentication via WiFi/GSM/OCPP1.6/RFID/ Ethernet
- Input voltage: 415 VAC, 50Hz
- Three Phase

11kW Charger

- Compatible with 4 wheelers
- User authentication via WiFi/GSM/OCPP1.6/RFID/ Ethernet
- Input voltage: 415 VAC, 50Hz
- Three Phase

AC EV Chargers Range
3.3kW To 22kW

DC Chargers

SQUAD

From urban roads to interstate highways, our DC chargers deliver ultra-fast and reliable charging when it matters the most. From four-wheelers to buses, and heavy duty trucks. Our chargers are built tough for heavy-duty demands ensuring seamless operations and accelerate the shift to sustainable mobility that is quick and affordable.

60kW | 120kW Charger

- Charging Gun as per CCS 2 Standard.
- 2 Output for Charging Port
- Input Voltage - 3 Phase
- User Authentication - RFID / QR Code Scan / OCPP 1.6 J
- Connectivity - GSM / Ethernet / WiFi

180kW | 240kW Charger

- Charging Gun as per CCS 2 Standard.
- 2 Output for Charging Port
- Input Voltage - 3 Phase
- User Authentication - RFID / QR Code Scan / OCPP 1.6 J
- Network Connection - 4G Module / Wifi / Ethernet

360kW Charger

- Charging Gun as per CCS 2 Standard.
- 2 Output for Charging Port
- Input Voltage - 3 Phase
- User Authentication- RFID / QR Code Scan / OCPP 1.6 J
- Connectivity - GSM / Ethernet / WiFi

LIQUID COOLED TECHNOLOGY

DC EV Chargers Range
30kW To 360kW

विकास की ओर नई उड़ान..

Servotech Renewable Power System Ltd.

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Safiabad Plant: Killa No. 14/6/1/2 (0-3), 6/2/3 (5-13) Village-Safiabad, Pana Paposhian, Rai, Sonipat 131029 Haryana