

SPARKLE-ELITE IP65 HYBRID SOLAR INVERTER



Range Available

6kW & 12kW

About Servotech Renewable

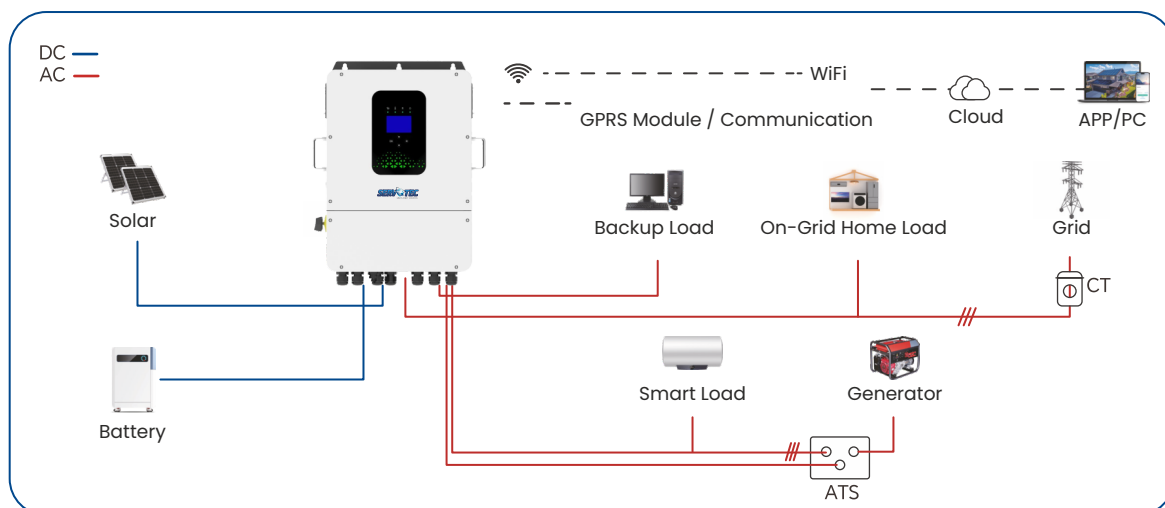
Servotech Renewable Power System Ltd. (NSE: SERVOTECH) is India's leading manufacturer of advanced clean energy solutions, specializing in solar solutions, BESS and EV charging solutions. With a robust pan-India presence, agile manufacturing, and strong R&D capabilities, Servotech is driving India's transition toward a sustainable, energy-independent, and technologically empowered future. Through continuous innovation, strategic collaborations, and large-scale deployments, the company delivers reliable, high-performance solutions that support the nation's clean energy goals. Servotech's comprehensive portfolio spanning solar panels, inverters, Lithium batteries, and EV chargers reflects its commitment to engineering excellence and environmental stewardship. By aligning business growth with global sustainability standards, Servotech stands as a catalyst in shaping India's green energy transformation and powering a cleaner tomorrow.



Single & Three Phase IP65 Hybrid Solar Inverter



- Supports up to 12 units in parallel operation, meeting the demands of small-scale industrial and commercial energy storage applications.
- Grid-to-off-grid switching time is less than 10 ms, ensuring uninterrupted power supply to critical equipment.
- Allows configuration of up to 6 battery charging time periods and cut-off thresholds.
- Supports maximum power charging and discharging modes.
- Compatible with diesel generators for battery charging and load power supply.
- High system efficiency with intelligent air-cooling to prolong overall service life.
- Integrated communication interfaces including RS485, CAN, and WiFi (via APP/PC Cloud monitoring).
- Smart load management, CT sensing, ATS support, and optional 4G/GPRS module for remote connectivity.



Parameters	STSP-EL-HYBINV-6248/S11 IP65	STSP-EL-HYBINV-12048/S33 IP65
Battery Input Data		
Charging Current Range (A)	50-135A	100-250A
Max. Discharging Current (A)	135	250
Battery Type	Lead-acid or Li-ion	Lead-acid or Lithium-ion
Battery Voltage Range(V)	40-60R	40-60R
External Temperature Sensor	Yes	Yes
PV String Input Data		
Max DC input Power (W)	9000	15600
PV input Current (A)	18+18	26+13
Max.PV Isc (A)	27+27	34+22
No. of MPPT Trackers	2	2
Number of Strings per MPPT Tracker	1+1	1+1
PV Input Voltage (V)	370V(125V-500V)	550V(160V-800V)
MPPT Voltage Range (V)	150-425V	200-650V
Full Load DC Voltage Range	300-425V	350-650V
Start-up Voltage (V)	125V	160V
AC Input/Output Data		
Rated AC Output Active Power (W)	6000	12000
Max AC Output Active Power (VA)	6600	13200
AC Input/output Rated Current (A)	27.3/26.1	18.2/17.4
Max, AC input/Output Current (A)	30/28.7	20/19.1
Max, Continuous AC Passthrough (A)	40	45
Output Frequency and Voltage	50/60Hz; 220/230Vac	50/60Hz;3L/N/PE 220/380Vac,230/400Vac
Peak Power(Off Grid)	Double rated Power, 1 OS	Double rated Power,10S
DC Current Injection	<0.5% In	<0.5% In
Power Factor	0.8 leading to 0.8 lagging	0.8 leadingto 0.8 lagging
Grid Type	Single Phase	Three Phase
Max.Three-phase Unbalanced Output Current (A)	N/A	27.3/26.1
Max. Output short circuit current (A)	N/A	75
Total Harmonic Distortion (THD)	<3% (of nominal power)	<3% (of nominal power)
Efficiency		
Max. Efficiency	97.60%	97.60%
Euro Efficiency	96.50%	97.0%
MPPT Efficiency	>99%	>99.0%
Certifications and Standards		
Grid Regulation	IS 16221 / IEC 62109-2: 2011 and IS 16169 / IEC 62116 and IS 17980 /IEC 62891	
EMC/Safety Regulation	EN61000-6-2/-4; EN62109-1, EN62109-2	
General Data		
Net Weight (kg)	22	35
Gross weight (kg)	26	39
Cabinet size (mm)(LxWxH) (Excluding connectors and brackets)	490x340x256.22	629.9x430x256mm
Operating Temperature Range(°C)	-40-60°C, >55°C Derating	-40-60°C, >55°C Derating
Cooling	Smart cooling	Smart Cooling
Noise(dB)	<50 dB	<50 dB
Protection Degree	IP65	IP65
Warranty	5 Years	5 Years
Communication with BMS	Rs485; CAN	Rs485; CAN
Installation Style	Wall-mounted	Wall-mounted
Monitor mode	WiFi, APP	WiFi, APP

CONTACT US

Ph: 011-41183116, +91 97176 91800 |  +91 93113 13734

Email: servotech@servotechindia.com | Website: www.servotech.in

Servotech Renewable Power System Ltd.

Corporate Office : 806, 8th Floor, Crown Heights, Sector-10, Rohini, New Delhi - 110085

Warehouse: Khasra No. 8/5, 6, 14/2, 15/1, 16/2 Min & 17, Jakhauli Road, Jhundpur, Sonipat, Haryana - 131021

Reg. Add. & Kundli Plant: Khata No. 1970, Khewat No. 1672, Khasra No. 21/20/2/2, Revenue Estate, Kundli, P.S.Rai, Sonipat, Haryana - 131029

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

