



VSOLE[®]
TECHNOLOGY BEYOND IMAGINATION

India's 1st Solar PV Inverter with Latest Standards & Modern Technology



Redefining the **Solar World** with Sustainable & Reliable **Solar Inverter.**



#startupindia



**AatmaNirbhar
Bharat Abhiyan**



OUR STORY

Vsole is a start-up company formed by an experienced bunch of skilled professionals. Our Team has come together to build top notch Solar based products to meet the needs of current industry. We have successfully developed Solar grid-tie inverter & Hybrid Inverters for Solar industry those are totally reliable, easy to care, user friendly with unbreakable sustainability. We have established the corporate office in Surat, Gujarat popularly known as Solar-city of INDIA and established State of Art facility in the state of GUJARAT which is the hub of Solar business in INDIA. Our Team has a total experience of more than **12 years** in the field of Solar Energy that put us in unique position to provide end-to-end customised solution to our user's satisfaction.

With a strong belief in **"Make in India"**, Vsole's mission is to bring India made solar inverters to promote pollution free climate all around the world.



OUR VISION

Our vision is to cement a place for ourselves by being the part of this solar energy drive to take India to a next level.



OUR MISSION

Our mission is to fill the gaps in Indian solar industry by providing the most reliable & carefree product at an affordable price with long product life.

WHY VSOLE

Below mentioned unique features makes our Inverter suitable for "EVERYONE"

Affordable

So more and more people could use them and get clean energy.

Reliable

Our products are made from high grade components to work tirelessly, also they are supported by longer & unique warranty terms.

Sustainable

We understand Inverters upto chip & component level, which stand us apart from the rest in the solar industry.

Dependable

We are driven by a simple idea: **"SOLAR IS FOR EVERYONE"**. The future of energy is in Solar energy industry, we plan to fulfill the demands of industry by providing best experience through our product & Services to our distributors, dealers, EPCs players and end users. Our complete local presence across India makes us more **dependable & trustable**.

OUR USP



Cost effective & compact design.



24 hours remote service support.



Easy approach & reachability for EPC companies & end users in India.



R&D DEPARTMENT

Our R&D team drives innovation, developing cutting-edge technology for improved inverter efficiency. We focus on future-ready solutions to meet evolving energy needs.

ASSEMBLING DEPARTMENT

Our skilled team ensures precision in assembling every solar inverter, meeting the highest standards of quality and reliability. Each unit is meticulously crafted for optimal performance and longevity.



HIGH VOLTAGE TEST

Safety and resilience are paramount as we expose inverters to high voltage to ensure they withstand extreme electrical conditions. Our tests certify protection against potential hazards.

AGING TEST

We simulate real-world conditions to rigorously test the durability and performance of inverters over time. This ensures our products deliver consistent energy efficiency throughout their lifecycle.



HEAT RUN TEST

We conduct heat run tests to monitor inverter performance under prolonged high-temperature conditions. This ensures our products maintain efficiency and reliability, even in extreme climates.

ATE TEST

Automated Test Equipment (ATE) ensures that every inverter meets stringent functional requirements through advanced, high-speed testing. We guarantee flawless performance before market release.



IP65 TEST

We subject inverters to rigorous IP65 testing, ensuring resistance against dust and water, making them ideal for outdoor installations. Our products are built to thrive in challenging environments.

DEDICATED SERVICE TEAM

Our nationwide service team is always ready to provide timely support, ensuring smooth operation and satisfaction. We believe in delivering exceptional after-sales care across India.



OUR PRODUCTS



Grid Tie Inverter Single Phase Grid Tie Inverter Three Phase Hybrid Inverter Single Phase Hybrid Inverter Three Phase LV & HV Micro Inverter Single Phase

GRID TIE INVERTER - SINGLE PHASE

VS (101S -602S) 1.0 KW-6.0 KW

- DC overloading upto 10%.
- High DC/AC ratio for more yields.
- Max. DC input current per string; compatible upto 800WP solar panel.
- H - bridge & T-type three-level topology & enhanced SPWM (Space Pulse Width Modulation).
- Special external colour with Epoxy Novolac coating for better Heat Management.
- Wide Input Range; Low Voltage start-up of 80V.
- Compact and light weight design for an easy Installation
- Multiple MPPT Design with IDA Technology (Intelligent Disturbance Algorithm).
- Inbuilt surge protections at both AC and DC side.
- Fan-less natural cooling models.
- RS485, remote monitoring (Wi-Fi/GPRS)
- User friendly Web and Mobile App Monitoring
- Zero export enabled models (External CT required).



GRID TIE INVERTER - SINGLE PHASE

CAPACITY (KW)	1	2	3	3.4	3.6	4.0	4.2	4.7	5	5.4	6
MODEL NUMBER	VS-101S	VS-201S	VS-301S	VS-341S	VS-361S	VS-422S	VS-422S	VS-472S	VS-502S	VS-542S	VS-602S
INPUT (DC)											
Max.DC input power (KW)	1.1	2.2	3.3	3.7	3.9	4.4	4.6	5.1	5.5	5.9	6.6
Max. DC I/P (Vdc)	550V										600V
Max. MPPT I/P Current (A)	20A										
MPPT Short Circuit Current (A)	30A										
MPPT Tracking Voltage (Vdc)	70-550V						80-550V				80-600V
Start-Up Voltage (V)	80V										
Number of MPPT Tracker	1						1/2				
Strings per MPPT Tracker	1										
OUTPUT (AC)											
Rated output power (KW)	1	2	3	3.4	3.6	4.0	4.2	4.7	5	5.4	6
Rated Grid Voltage (V)	230V										
Voltage Operating Range (V)	140-285V						170 - 285V				
Rated Grid freq. (Hz) / Range	50Hz (± 5%)										
Rated output current AC (A)	4.8	9.6	14.3	16.2	17.2	19	20	22.5	23.5	25.8	28.7
AC Connection	P + N + PE										
THDI (%)	<3%										
Output Power factor	0.8 leading to 0.8 lagging										
EFFICIENCY											
Max. conversion Efficiency (%)	97.5%										
Max. Euro Efficiency (%)	97.3%										
MPPT Efficiency (%)	>99%										
PROTECTION											
Anti-Islanding Protection	YES										
DC Reverse Polarity Protection	YES										
Insulation Resistance Protection	YES										
Ground Fault Protection	YES										
Output Over Current Protection	YES										
Output Short circuit Protection	YES										
Output Over Voltage Protection	YES										
DC Isolator Switch	NO										
Surge Protection	DC: Type III / AC: Type III										
GENERAL DATA											
Dimensions (W*H*D) mm	280W*310H*184D						330W*323H*190D				
Weight (Kg)	4.8						7.5				
Topology	Transformerless										
Noise Emission (dB)	≤25dB										
Display	LED with LCD Display										
Cooling Method	Natural Cooling										
Operating ambient Temperature	(-25°C ~ +65°C)										
Operating Humidity	0% - 100%										
Max. Operating Altitude (m)	2000 (>2000 Derating)m										
Ingress Protection	IP65										
Night Consumption (w)	<1										
Standard Warranty	10 Years										
CONNECTION TYPE											
DC connectors	MC-4										
Ingress AC plug	IP65 rated plug										
Communication Modes	WiFi / GPRS / RS 485 / ETHERNET LAN / Local Monitoring										
Remote Monitoring	YES										

GRID TIE INVERTER - THREE PHASE

VS (0422S-3508T) 4.0KW-350KW



- Max. efficiency up to 98.9% .
- Heavy duty inbuilt DC Isolation switch.
- Special external colour with Epoxy Novolac coating for better heat management.
- Max. DC input current per string; compatible upto 800WP solar panel.
- Type II DC / AC SPD, frequency drop control technology.
- Intelligent Fan based cooling on higher capacity models.

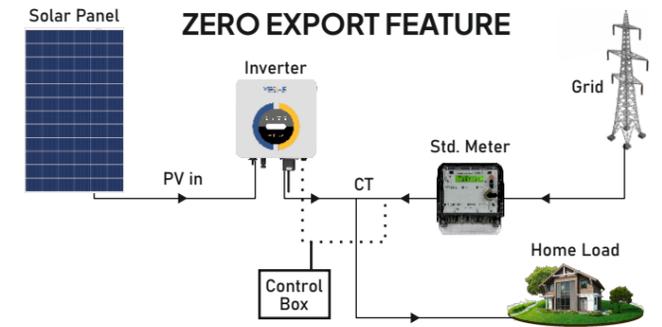
- Compact & light weight design for an easy Installation.
- RS485, remote monitoring (Wi-Fi/GPRS).
- Multiple protection functions.
- DC overloading upto 20%.

Grid Tie Inverter - Three Phase

CAPACITY (KW)	4	5	6	7	8	9	10	12	15	18	20	25
MODEL NUMBER	VS-422S	VS-502S	VS-602S	VS-072T	VS-082T	VS-092T	VS-102T	VS-122T	VS-152T	VS-182T	VS-202T	VS-252T
INPUT (DC)												
Max.DC input power (KW)	4.8	6.0	7.2	8.4	9.6	10.8	12.0	14.4	18.0	21.6	24.0	30.0
Max. DC I/P (Vdc)	1000V											
Max. MPPT I/P Current (A)	20A						20A+26A			30A		
MPPT Short Circuit Current (A)	30A						30A+39A			46A		
MPPT Tracking Voltage (Vdc)	120-1000V						180-1000V					
Start-Up Voltage(V)	140V						200V					
Number of MPPT Tracker	1/2						2					
Strings per MPPT Tracker	1						1/1+2		1+2		2	
OUTPUT (AC)												
Rated output power (KW)	4	5	6	7	8	9	10	12	15	18	20	25
Rated Grid Voltage (V)	415V											
Voltage Operating Range (V)	280-455V											
Rated Grid freq. (Hz) / Range	50Hz (± 5%)											
Rated output current AC (A)	6.7	7.6	9.2	10.7	12.2	13.8	15.3	18.3	22.9	27.5	30.6	38.2
AC Connection	3P + N + PE											
THDI (%)	<3%											
Output Power factor	0.8 leading to 0.8 lagging											
EFFICIENCY												
Max. conversion Efficiency (%)	98.3%						97.5%					
Max. Euro Efficiency (%)	98.3%						97.5%					
MPPT Efficiency (%)	>99%											
PROTECTION												
Anti-Islanding Protection	YES											
DC Reverse Polarity Protection	YES											
Insulation Resistance Protection	YES											
Ground Fault Protection	YES											
Output Over Current Protection	YES											
Output Short circuit Protection	YES											
Output Over Voltage Protection	YES											
DC Isolator Switch	YES											
Surge Protection	DC: Type II / AC: Type II											
GENERAL DATA												
Dimensions (W*H*D) mm	330W*457H*185D						330W*508H*206D					
Weight (Kg)	10.0						20.8					
Topology	Transformerless											
Noise Emission (dB)	≤45dB											
Display	LED with LCD Display											
Cooling Method	Natural Cooling						Smart Fan Cooling					
Operating ambient Temperature	(-25°C ~ +65°C)											
Operating Humidity	0% - 100%											
Max. Operating Altitude (m)	2000 (>2000 Derating)m											
Ingress Protection	IP65											
Night Consumption (w)	<1											
Standard Warranty	10 Years											
CONNECTION TYPE												
DC connectors	MC-4											
Ingress AC plug	IP65 rated plug											
Communication Modes	WiFi / GPRS / RS 485/ ETHERNET LAN / Local Monitoring											
Remote Monitoring	YES											

OPTIONAL FEATURES FOR GRID TIE INVERTERS

- Weather monitoring system (optional).
- DC Isolation Switch for Three phase inverters.
- Offline Data Storage facility upto 6 months on demand.
- String Level monitoring
- Anti- PID Function (optional).
- ZED - Zero Export Device (optional).



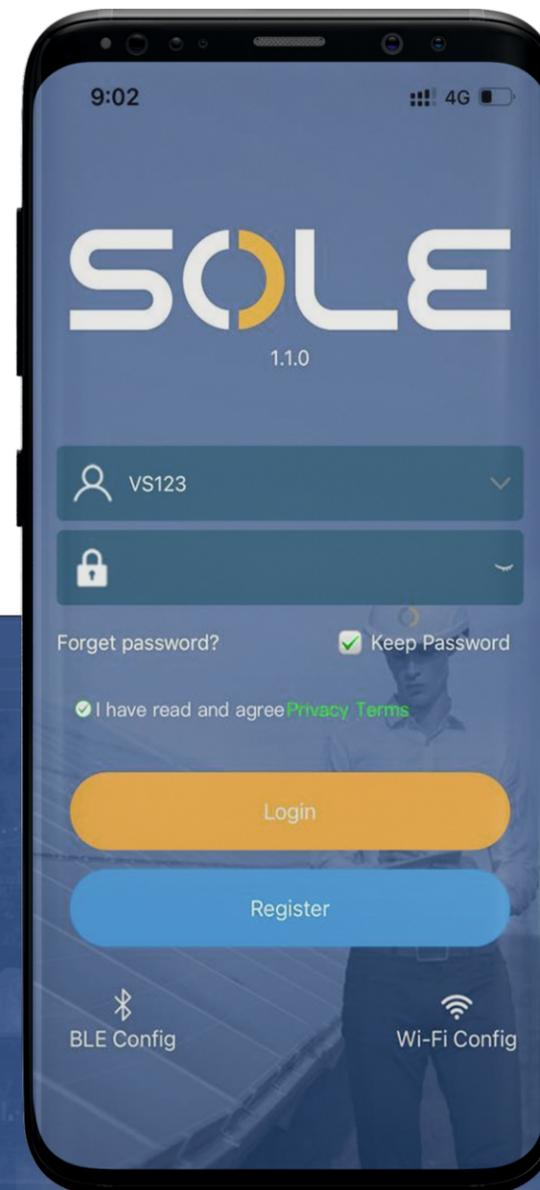
Grid Tie Inverter - Three Phase

CAPACITY (KW)	30	35	40	45	50	60	70	75	80	90	100	110				
MODEL NUMBER	VS-302T	VS-352T	VS-403T	VS-453T	VS-503T	VS-604T	VS-704T	VS-754T	VS-804T	VS-904T	VS-1004T	VS-1106T				
INPUT (DC)																
Max.DC input power (KW)	36.0	42.0	48.0	54.0	60.0	72.0	84.0	90.0	96.0	108.0	120.0	132.0				
Max. DC I/P (Vdc)	1000V															
Max. MPPT I/P Current (A)	40A				60A				40A							
MPPT Short Circuit Current (A)	60A				90A				60A							
MPPT Tracking Voltage (Vdc)	200-1000V															
Start-Up Voltage (V)	200V															
Number of MPPT Tracker	2		2		3		3/4		4		4/6					
Strings per MPPT Tracker	2/3		4		3		3/4		4		4					
OUTPUT (AC)																
Rated output power (KW)	30	35	40	45	50	60	70	75	80	90	100	110				
Rated Grid Voltage (V)	415V															
Voltage Operating Range (V)	280-455V															
Rated Grid freq. (Hz) / Range	50Hz (± 5%)															
Rated output current AC (A)	41.7	49	55.7	63.2	70.3	84.3	99.4	105.3	113.2	127.3	141.7	154.6				
AC Connection	3P + N + PE															
THDI (%)	<3%															
Output Power factor	0.8 leading to 0.8 lagging															
EFFICIENCY																
Max. conversion Efficiency (%)	98.6%				98.7%				98.3%							
Max. Euro Efficiency (%)	97.8%				98%				98.3%							
MPPT Efficiency (%)	>99%															
PROTECTION																
Anti-Islanding Protection	YES															
DC Reverse Polarity Protection	YES															
Insulation Resistance Protection	YES															
Ground Fault Protection	YES															
Output Over Current Protection	YES															
Output Short circuit Protection	YES															
Output Over Voltage Protection	YES															
DC Isolator Switch	YES															
Surge Protection	DC: Type II / AC: Type II															
GENERAL DATA																
Dimensions (W*H*D) mm	362W*577H*215D				647.5W*537H*303.5D				700W*575H*297D				838W*568H*323D			
Weight (Kg)	25.5				44.5				60.0				73.7			
Topology	Transformerless															
Noise Emission (dB)	≤45dB															
Display	LED with LCD Display															
Cooling Method	Smart Fan Cooling															
Operating ambient Temperature	(-25°C ~ +65°C)															
Operating Humidity	0% - 100%															
Max. Operating Altitude (m)	2000 (>2000 Derating)m															
Ingress Protection	IP65															
Night Consumption (w)	<1															
Standard Warranty	10 Years															
CONNECTION TYPE																
DC connectors	MC-4															
Ingress AC plug	IP65 rated plug															
Communication Modes	WiFi / GPRS / RS 485/ ETHERNET LAN / Local Monitoring															
Remote Monitoring	YES															



GIRD TIE INVERTER - THREE PHASE

CAPACITY (KW)	120	125	135	250	330	350
MODEL NUMBER	VS-1206T	VS-1256T	VS-1308T	VS-2508T	VS-3302T	VS-3508T
INPUT (DC)						
Max.DC input power (KW)	180	187.5	195	270	396	420
Max. DC I/P (V)	1100 V			1500V		
Max. MPPT I/P Current (A)	40A					
MPPT Short Circuit Current (A)	60A					
MPPT Tracking Voltage (V)	200-1000V			500-1500V		
Start-Up Voltage(V)	250V			550V	550V	550V
Number of MPPT Tracker	6		8		12	
Total Number of Strings	24		32	24	30	32
OUTPUT (AC)						
Rated output power (KW)	120	125	135	255	330	350
Rated output Voltage (V) / Range	3L/N/PE 220/380V,230/400V 0.85uN - 1.1Un			3/PE, 800V	800V(640-920V)	3/PE, 800V
Rated output freq. (Hz) / Range	50Hz (± 5%)					
Rated output current AC (A)	174A	181.2A	188.5A	210A	235A	253A
AC Connection	3W + PE					
Max Output Current AC (A)	191.4A		195.7A	184A	254A	292A
THDI (%)	<3%					
Output Power factor	0.8 leading to 0.8 lagging					
EFFICIENCY						
Max. conversion Efficiency (%)	98.8%			99.00%		
Max. Euro Efficiency (%)	98.3%			98.50%		
PROTECTION						
Anti-Islanding Protection	YES					
DC Reverse Polarity Protection	YES					
Insulation Resistance Protection	YES					
Ground Fault Protection	YES					
Output Over Current Protection	YES					
Output Short circuit Protection	YES					
Output Over Voltage Protection	YES					
DC Isolator Switch	YES					
AC/DC Surge Protection	YES					
String Detection	YES					
PID Protection & Recovery	YES					
High/Low Voltage Ride Through	YES					
GENERAL DATA						
Dimensions (W*H*D) mm	1006Wx516Hx325.5D			1100.5W*713.5H*368D	1100W*920H*360D	1159W*828H*366D
Weight (Kg)	103			99	125	145
Topology	Transformerless					
Noise Emission (dB)	≤65dB			≤45dB		
Cooling Method	Intelligent Air Cooling					
Operating ambient Temperature	(-30°C ~ +60°C)					
Operating Humidity	0% - 100%					
Max. Operating Altitude (m)	4000 (>4000 Derating)m					
Ingress Protection	IP65			IP66		
Night Consumption (w)	<1W(Night)			<5W (Determined by testing, no higher than 10W)		
Standard Warranty	10 Years			5 Years		
CONNECTION TYPE						
DC Connectors	MC-4					
Communication Modes	RS 485/RS232/WIFI/LAN			Rs485 /PBUS	RS 485 /PLC	Rs485 /PBUS
Remote Monitoring	YES					



INTRODUCING

SOLE
SMART

TRACK ALL
YOUR
SOLAR PROJECTS
AT ONE PLACE

MONITOR



SCAN TO DOWNLOAD **SOLE SMART MOBILE APPLICATION**



ANDROID

IOS

HYBRID INVERTER

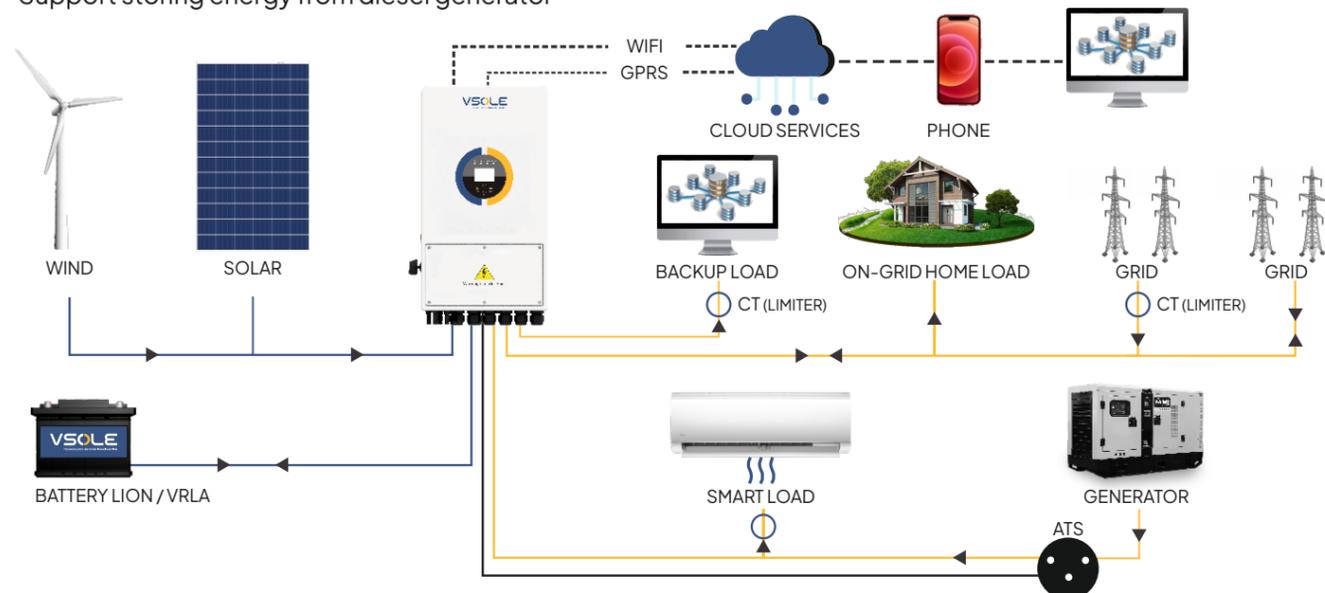
VS (HY03S - HY80T) 3.0KW-80.0KW

- All in 1- Off Grid / On Grid & Hybrid Bi-Directional solution
- Automatic Superfast switching time (Changeover Time) 4ms. It can be used as UPS
- Battery Management System (BMS) to protect & enhance the battery life (Li-ion/Lead Acid/Li-PO4)
- 100% unbalanced output, each phase; Max. output up to 50% rated power (Three Phase)
- Colourful touch LCD display with ease of operation & maintenance
- Ideal solution for BLACK-OUT & BROWN-OUTS with GRID Exports with & without Battery
- Programmable supply priority for PV, Battery & Grid
- Inbuilt Zero Export / Reverse Power Limit to grid
- Grid Peak Compensation Mode - It can reduce / Limit Maximum Demand (save your penalties)
- Intelligent SMART LOAD function for Air Conditioner, Geyser, Grid tie inverter & Home Appliances
- DC couple and AC couple to retrofit existing solar system
- Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current upto 240A
- 48V low voltage battery, transformer isolation design
- 6 times period for battery charging / discharging
- Vector/frequency drop control
- Supports using diesel generator to charge the battery directly. ensuring system energy supply 24*7Hrs
- Max. Conversion efficiency of 97.6%; Max. battery charge efficiency of 95.5%
- Support storing energy from diesel generator



HYBRID INVERTER - SINGLE PHASE

	Single Phase - Low Voltage						
CAPACITY (KW)	3KW 24V	3KW 48V	3.6KW 48V	5KW 48V	6KW 48V	8KW 48V	10KW 48V
MODEL NUMBER	VS-HY03S	VS-HY03S	VS-HY03S	VS-HY05S	VS-HY06S	VS-HY08S	VS-HY10T
BATTERY INPUT DATA							
Battery Type	Lead-acid or Li-Ion						
Battery Voltage Range (V)	20~30	40~60					
Max. Charging Current (A)	140	70	90	120	135	190	220
Max. Discharging Current (A)	140	70	90	120	135	190	220
Charging Curve	3 Stages / Equalization						
Charging Strategy for Li-Ion Battery	Self-adaption to BMS						
PV STRING INPUT DATA							
Max. DC Input Power (W)	3600	3600	4320	6000	7200	9600	12000
Rated PV Input Voltage (V)	370V						
Voltage Operating Range (V)	125~500V						
Start-Up Voltage (V)	125						
MPPT Voltage Range (V)	150~425						
Full Load DC Voltage Range (V)	300~425						
PV Input Current (A)	18	18+18		26+26			
Max. PV Isc Current (A)	27	27+27		34+34			
Number of MPPT/Strings per MPPT	1/1	2/1+1		2/2+2			
AC OUTPUT DATA							
Rated AC Output Power (W)	3000	3600	5000	6000	8000	10000	
Max. AC Output Power (W)	3300	3690	5500	6600	8800	11000	
AC Output Rated Current (A)	13	15.7	21.7	26.1	34.8	43.5	
Max. AC Output Current (A)	15	18	25	30	40	50	
Max. Continuous AC Passthrough Current (A)	35			40	50		
Peak Power (off grid)	2 time of rated power, 10 S						
Power Factor	0.8 leading to 0.8 lagging						
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac (single phase)						
Grid Connection	Single Phase (L+N+PE)						
DC injection current (mA)	<0.5% IN						
EFFICIENCY							
Max. Eff. efficiency	97.60%						
Euro Eff. efficiency	97%						
MPPT Eff. efficiency	99.90%						
PROTECTION							
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection						
Output Over Voltage Protection	DC Type II/AC Type III						
GENERAL DATA							
Operating Temperature Range (°C)	-45~60°C, >45°C derating						
Cooling	Natural Cooling			Smart Cooling			
Noise (dB)	≤30db						
Communication with BMS	RS485; CAN						
Weight (kg)	14	15.1		32			
Dimension excluding connectors & Brackets (mm)	330W x 433H x 238D				420W x 670H x 223D		
Protection Degree	IP65						
Installation Style	Wall-mounted						
Standard Warranty	5 Years (Extendable upto 10 Years)						





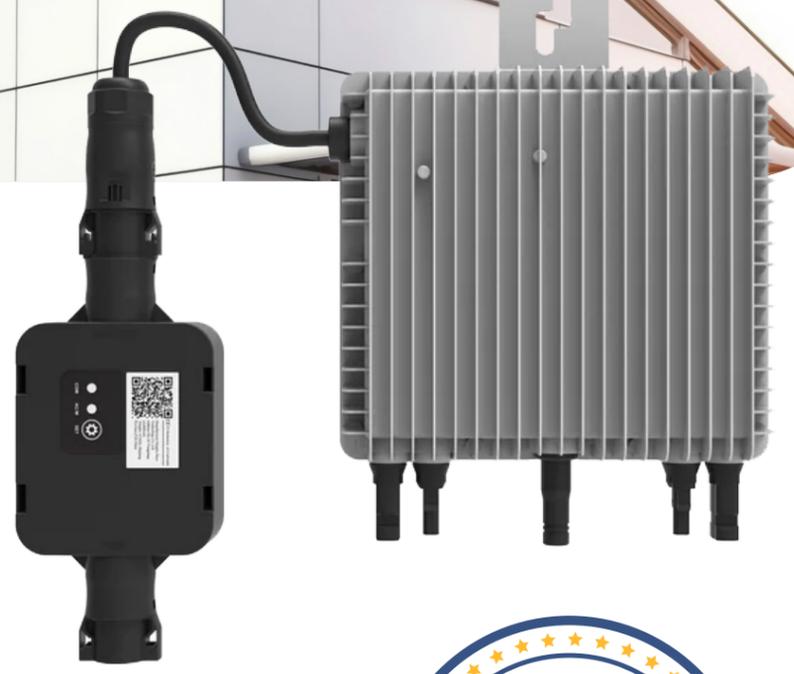
HYBRID INVERTER - THREE PHASE (LOW VOLTAGE)

Three Phase - Low Voltage					
CAPACITY (KW)	5KW 48V	6KW 48V	8KW 48V	10KW 48V	12KW 48V
MODEL NUMBER	VS-HY05T	VS-HY06T	VS-HY08T	VS-HY10T	VS-HY12T
BATTERY INPUT DATA					
Battery Type	Lead-acid or Li-Ion				
Battery Voltage Range (V)	40~60				
Max. Charging Current (A)	120	145	190	210	240
Max. Discharging Current (A)	120	145	190	210	240
Charging Curve	3 Stages / Equalization				
Charging Strategy for Li-IonBattery	Self-adaption to BMS				
PV STRING INPUT DATA					
Max. DC Input Power (W)	6500	7800	10400	13000	15600
Rated PV Input Voltage (V)	550 (160~800)V				
Start-Up Voltage (V)	160				
MPPT Voltage Range (V)	200~650				
Full Load DC Voltage Range (V)	350~650				
PV Input Current (A)	20+20		26+13		
Max. PV Isc Current (A)	30+30		34+17		
Number of MPPT/Strings per MPPT	2/1+1		2/2+1		
AC OUTPUT DATA					
Rated AC Output Power (W)	5000	6000	8000	10000	12000
Max. AC Output Power (W)	5500	6600	8800	11000	13200
AC Output Rated Current (A)	7.2	8.7	11.6	14.5	17.4
Max. AC Output Current (A)	8	9.6	12.8	15.9	19.1
Max. Continuous AC Passthrough Current (A)	45				
Peak Power (off grid)	2 time of rated power, 10 S				
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac				
Grid Connection	Three Phase (3L+N+PE)				
DC injection current (mA)	<0.5% IN				
EFFICIENCY					
Max. Efficiency	97.60%				
Euro Efficiency	97%				
MPPT Efficiency	99.90%				
PROTECTION					
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection.				
Output Over Voltage Protection	DC Type II/AC Type III				
GENERAL DATA					
Operating Temperature Range (°C)	-45~60°C, >45°C derating				
Cooling	Smart Cooling				
Noise (dB)	≤45db				
Communication with BMS	RS485; CAN				
Weight (kg)	33.6				
Size (mm)	422W x 702H x 281D				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Standard Warranty	5 Years (Extendable upto 10 Years)				



HYBRID INVERTER - THREE PHASE (HIGH VOLTAGE)

Three Phase - High Voltage									
CAPACITY (KW)	15KW	20KW	25KW	30KW	40KW	50KW	60KW	75KW	80KW
MODEL NUMBER	VS-HY15T	VS-HY20T	VS-HY25T	VS-HY30T	VS-HY40T	VS-HY50T	VS-HY60T	VS-HY75T	VS-HY80T
BATTERY INPUT DATA									
Battery Type	Li-Ion								
Battery Voltage Range (V)	160~700			160~800			160~1000		
Max. Charging Current (A)	37	50	50+50				75+75		
Max. Discharging Current (A)	37	50	50+50				75+75		
Charging Curve	3 Stages / Equalization								
Charging Strategy for Li-IonBattery	Self-adaption to BMS								
PV STRING INPUT DATA									
Max. DC Input Power (W)	19500	26000	32500	39000	52000	65000	78000	97500	104000
Rated PV Input Voltage (V)	1000								
Start-Up Voltage (V)	180								
MPPT Voltage Range (V)	150~850								
Full Load DC Voltage Range (V)	350~650						650		
PV Input Current (A)	26+20	26+26	36+36+36	36+36+36+36			42+42+42+42		
Max. PV Isc Current (A)	39+30	39+39	55+55+55	55+55+55+55			63+63+63+63		
Number of MPPT/Strings per MPPT	2/2+1	2/2+2	3/2+2+2	4/2+2+2+2			4/3+3+3+3		
AC OUTPUT DATA									
Rated AC Output Power (W)	15000	20000	25000	30000	40000	50000	60000	75000	80000
Max. AC Output Power (W)	16500	22000	27500	33000	44000	55000	60000	75000	80000
AC Output Rated Current (A)	21.8	29	36.3	43.5	58	72.5	87	108.7	115.9
Max. AC Output Current (A)	24	31.9	39.9	47.9	63.8	79.8	87	108.7	115.9
Max. Continuous AC Passthrough Current (A)	80			200					
Peak Power (off grid)	1.5 time of rated power, 10 S						1.2 time of rated power, 10 S		
Power Factor	0.8 leading to 0.8 lagging								
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac								
Grid Connection	Three Phase (3L+N+PE)								
DC injection current (mA)	<0.5% IN								
EFFICIENCY									
Max. Efficiency	97.60%								
Euro Efficiency	97%								
MPPT Efficiency	99.90%								
PROTECTION									
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection.								
Output Over Voltage Protection	DC Type II/AC Type III								
GENERAL DATA									
Operating Temperature Range (°C)	-45~60°C, >45°C derating								
Cooling	Intelligent Air Cooling								
Noise (dB)	≤45db								
Communication with BMS	RS485; CAN								
Weight (kg)	33.6								
Size (mm)	408W x 638H x 237D	527W x 894H x 294D			606W x 927H x 314D				
Protection Degree	IP65								
Installation Style	Wall-mounted								
Standard Warranty	5 Years (Extendable upto 10 Years)								



MICRO INVERTER

0.5KW - 1KW

- 1 MPP tracker, module level monitoring
- Ip67 protection degree
- wifi communication
- Rapid shutdown function
- Easy installation, suitable for quick-plug balcony PV system
- <100ms AC fast discharge, compliant with new required standard
DIN VDE 0126-95 (,200ms) for human safety
- Complete NS protection with self-check function
- External relay advantage with low temperature, long life easier maintenance
- 25 years design life and 10 years warranty
- With integrated WIFI



MICRO INVERTER

CAPACITY (KW)	0.5	1
PV String Input Data		
Max. PV Input Power (W)	210-700(1 Piece)	210-700(2 Pieces)
Max. PV Input Voltage (V)	60	
Start-up Voltage (V)	20	
MPPT Voltage Range (V)	25-55	
Rated PV Input Voltage (V)	42.5	
Max. Operating PV Input Current (A)	13	13+13
Max. Input Short Circuit Current (A)	19.5	19.5+19.5
No. of MPP Trackers	1	2
No. of Strings MPP Tracker	1	
AC Output Side		
Rated AC Output Active Power (W)	500	1000
Max. AC Output Apparent Power (VA)	500	1000
Rated AC Output Current (A)	2.3/2.2	4.6/4.4
Max. AC Output Current (A)	2.3/2.2	4.6/4.4
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un	
Grid Connection Form	L/N/PE	
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Max. Unit per Branch	10	5
Power Factor Adjustment Range	0.9 leading-0.9 lagging	
Total Current Harmonic Distortion THDi	<3%	
DC Injection Current	<0.5%In	
Efficiency		
Max. Efficiency	96.5%	
Euro Efficiency	96.0%	
MPPT Efficiency	>99%	
Equipment Protection		
DC Polarity Reverse Connection Protection	Yes	
AC Output Overcurrent Protection	Yes	
AC Output Overvoltage Protection	Yes	
AC Output Short Circuit Protection	Yes	
Thermal Protection	Yes	
DC Terminal Insulation Impedance Monitoring	Yes	
Power Network Monitoring	Yes	
Island Protection Monitoring	Yes	
Earth Fault Detection	Yes	
Overvoltage Load Drop Protection	Yes	
General Data		
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude (m)	2000m	
Noise (dB)	≤25	
Ingress Protection(IP) Rating	IP 67	
Inverter Topology	Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Communication	Wi-Fi	
Cabinet Size (WxHxD mm)	173x158.5x31.5 (Excluding connectors and brackets)	
Weight (kg)	1.85	
Warranty	10 Years	
Type of Cooling	Natural Cooling	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G99, VDE-AR-N 4105	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

4 LEVEL SERVICE SUPPORT

Complaint Registration at Hotline Number +91 95120 22766 or raise the ticket from our website www.vsolesolar.com



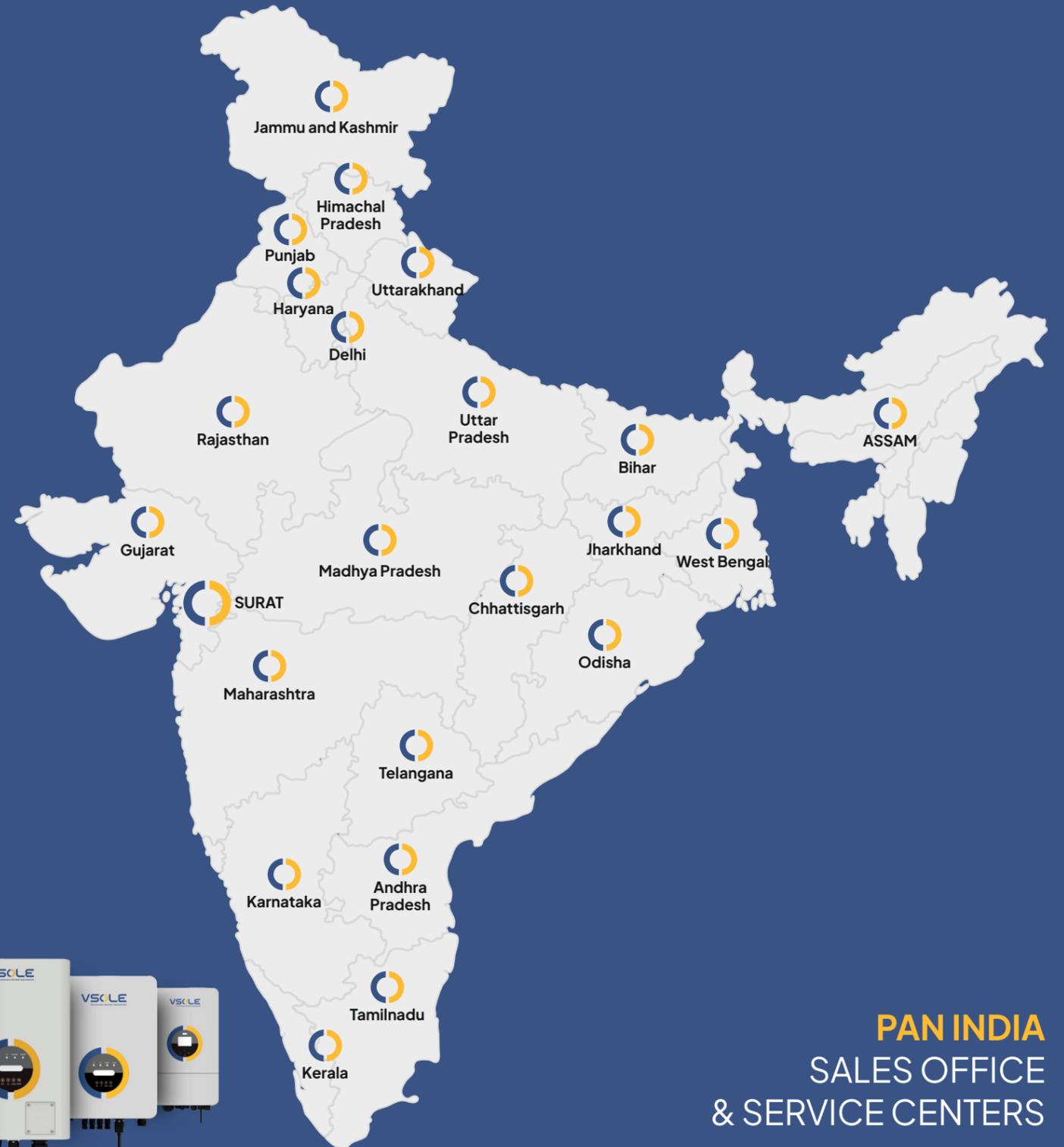
Remote support if the problem can get resolved over an online monitoring access (Each inverter should have internet connectivity through the provided RMS Dongle)

Field/Site Visit for problem found in hardware or for those which cannot be resolved via remote monitoring



Replacement will be provided against the faulty inverter within working 72Hours from the date of Complaint Log.

OUR PRESENCE



PAN INDIA
SALES OFFICE
& SERVICE CENTERS

We have sales cum service centers in every 300 kms in selected regions, the replacement can be provided through the nearest center on the basis of nature of fault in the inverter.



www.vsolesolar.com

The mentioned technical data in this brochure may be revised or updated as per changes in product development. The data in this brochure is subjected to change without any prior notice.

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