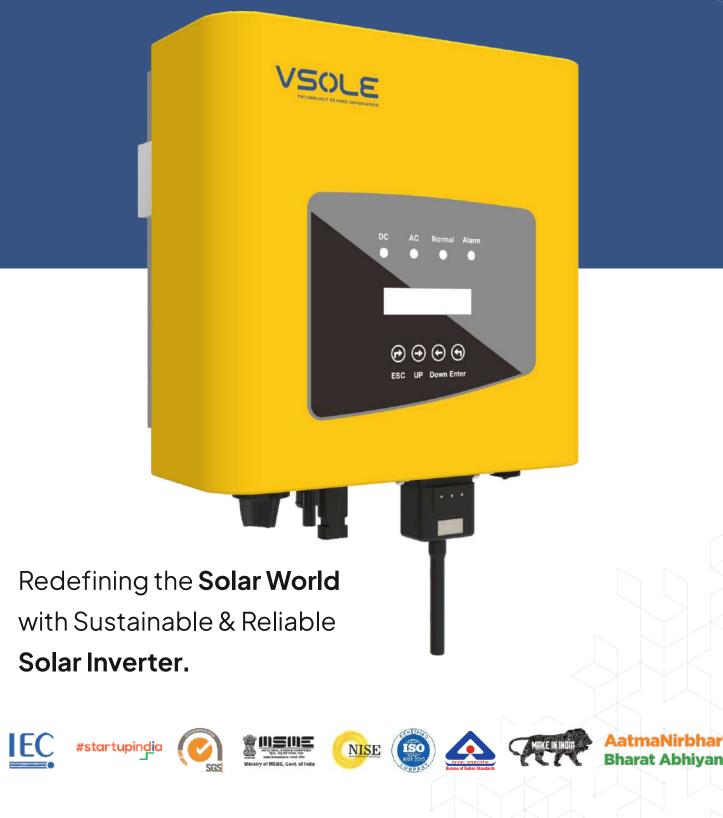
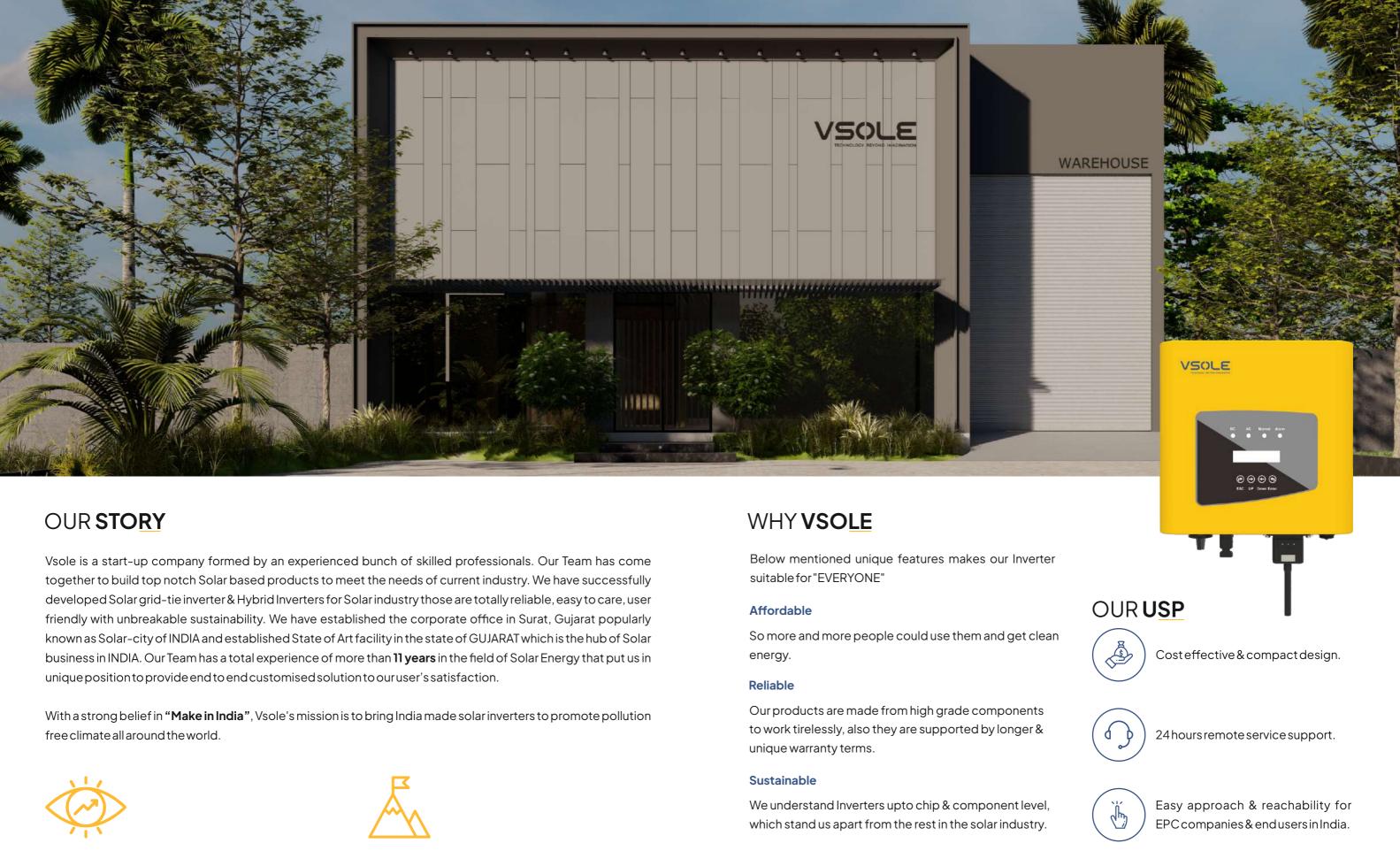




Manufacturer of **Gujarat's 1**st **Solar PV Inverter** with **European Technology**







OUR VISION

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



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.

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 PRODUCTS





Grid Tie Inverter Single Phase

Grid Tie Inverter Three Phase



Bi Directional Hybrid Inverter



- Compact & light design for

KEY BENEFITS



GRID TIE INVERTER - SINGLE PHASE VSS (101S - 622S) 1.0 KW - 6.2 KW

- T-type three-level topology & enhanced SVPWM (Space Vector Pulse Width Modulation).
- Max. DC input current per string; compatible upto 600WP solar panel.
- DC overloading up to 10%.
- High DC/AC ratio for more yields
- AC overloading up to 10%.
- Special external colour with Epoxy Novolac coating for better Heat Management.
- Compact and light weight design for an easy Installation
- Wide Input Range; Low Voltage start-up of 80V.
- Multiple MPPT Design with IDA Technology (Intelligent Disturbance Algorithm).
- Inbuilt surge protections at both AC and DC side.
- Fan-less natural cooling models.
- Compact and light weight design for an easy Installation.
- RS485, remote monitoring (Wi-Fi/GPRS)
- User friendly Web and Mobile App Monitoring
- Zero export enabled models (External CT required).
- VSG (Virtual Synchronous Generator) application .





GRID TIE INVERTER - SINGLE PHASE

CAPACITY (KW)	1	2	2.3	3	3.3	4	4.2	5	5.3	6	6.2
MODELNUMBER	VS-101S	VS-201S	VS-231S	VS-301S	VS-331S	VS-401S	VS-422S	VS-502S	VS-532S	VS-602S	VS-622
INPUT (DC)											
Max.DC input power (KW)	1.1	2.2	2.5	3.3	3.6	4.4	4.6	5.5	5.8	6.6	6.8
Max. DC I/P (Vdc)				•		550Vdc					
Max. MPPT I/P Current (A)						13A					
MPPT Short Circuit Current (A)						20A					
MPPT Tracking Voltage (Vdc)			70-500\	/				80)-500V		
Min. Start Voltage (V)						80Vdc					
Number of MPPT Tracker			1						2		
Strings per MPPT Tracker						1					
OUTPUT (AC)											
Rated output power (KW)	1	2	2.3	3	3.3	4	4.2	5	5.3	6	6.2
Rated Grid Voltage (V) / Range					230	V/(140-2	.95V)	I			
Rated Grid freq. (Hz) / Range					50F	Hz/(45-5	5Hz)				
Rated output current AC (A)	4.7	9.4	10.8	14.1	15.5	18.8	19.8	23.5	24.9	28.2	29.2
AC Connection						P + N + PE					
THDI (%)						<3%					
Output Power factor					0.8 lead	ling to 0.8	Blagging				
EFFICIENCY						-					
Max. conversion Efficiency (%)		97.3		97.5					97.5		
Max. Euro Efficiency (%)		97.1		97.3					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						YES					
Surge Protection					DC: Tvr	pe III / AC:	Type III				
GENERAL DATA					2011		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Dimensions (W*H*D) mm			280*272.	5*18/				330	*323*190		
Weight (Kg)			4.8	0 10-				000	7.5		
Topology			4.0		Tra	l nsformer	000		7.5		
Noise Emission (dB)					IIU	<25dB	000				
Display					LEDW	/ith LCD D	isplay				
Cooling Method						tural Coo					
Operating ambient Temperature						5°C ~ +65	Ŷ				
Operating Humidity)% - 1009					
Max. Operating Altitude (m)						>2000 D					
Ingress Protection					2000 (IP65	orading/				
Night Consumption (w)						<					
Standard Warranty				۵.	lears levt	endable u	into 10 Vo	ar)			
,				0							
CONNECTION TYPE						MC 4					
MC-4					ID4	MC-4 55 rated p	lug				
IP65 rated plug					IPC	plateup	uy				
WiFi / GPRS / RS 485 / ETHERNET LAN/ Local Monitoring			WiF	i/GPRS/	RS 485/	ETHERNE	TLAN/Lo	ocal Monit	oring		

GRID TIE INVERTER – THREE PHASE VSS (052T-1106T) 5.0KW-110KW

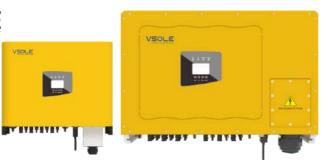
- Max. efficiency up to 98.9%.
- Heavy duty inbuilt DC Isolation switch.
- Special external colour with Epoxy Novolac

coating for better heat management.

• Max. DC input current per string; compatible

upto 600WP solar panel.

- Type II DC / AC SPD, frequency drop control technology.
- Intelligent Fan based cooling on higher capacity models.



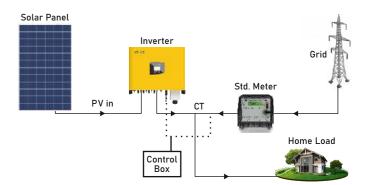
- Compact & light weight design for an easy Installation.
- RS485, remote monitoring (Wi-Fi/GPRS).
- Multiple protection functions.
- DC overloading upto 20%.

CAPACITY (KW)	5	6	7	8	9	10	12	15	18	20	2		
MODELNUMBER	VS-052T	VS-062T	VS-072T	VS-082T	VS-092T	VS-102T	VS-122T	VS-152T	VS-182T	VS-202T	VS-2		
INPUT (DC)													
Max.DC input power (KW)	6.0	7.2	8.4	9.6	10.8	12.0	14.4	18.0	21.6	24.0	30		
Max. DC I/P (Vdc)						1000V							
Max. MPPT I/P Current (A)		13A 13A+26A 26A											
MPPT Short Circuit Current (A)		20A 20A+40A 40A											
MPPT Tracking Voltage (Vdc)					2	00-850	V						
Min. Start Voltage(V)						250V							
Number of MPPT Tracker		2											
Strings per MPPT Tracker		1 1+2 2											
OUTPUT (AC)													
Rated output power (KW)	5	6	7	8	9	10	12	15	18	20	2		
Rated Grid Voltage (V) / Range					230	V/(140-2	95V)						
Rated Grid freq. (Hz) / Range					50F	lz/(45-5	5Hz)						
Rated output current AC (A)	7.2	8.6	10.1	11.56	13.0	14.5	17.34	21.7	26.01	28.90	36		
AC Connection						P + N + P	E						
THDI (%)		<3%											
Output Power factor					0.8 lead	ing to 0.8	3 lagging	1					
EFFICIENCY													
Max. conversion Efficiency (%)						98.3							
Max. Euro Efficiency (%)	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: Tvr	elli/AC	Type III						
GENERAL DATA					00.190	10 111 / 110	. type iii						
Dimensions (W*H*D) mm			330*457	7*195				77∩*	508*20	6			
Weight (Kg)			10.0						20.8	0			
Topology			10.0	,	Trar	Insformer			20.0				
Noise Emission (dB)					IIdi	<45dB	1622						
					LEDW	ith LCD D	lienlav						
Display Cooling Method			Nat	ural Coc			Isplay		Smart Ea	n Cooling	7		
Cooling Method Operating ambient Temperature			INGL		<u> </u>	5°C~+65	5°C)	· · · ·	smalt r'd	n cooinț	J		
					,		,						
Operating Humidity						% - 1009 >2000 D							
Max. Operating Altitude (m)					2000 (;		erating)						
Ingress Protection						IP65							
Night Consumption (w)				0.14		<]	10						
Standard Warranty				8 Ye	ears(exte	endable	upto IU Y	rear)					
CONNECTION TYPE													
MC-4						MC-4							
IP65 rated plug					IP6	5 rated p	lug						
WiFi / GPRS / RS 485 / ETHERNET LAN / Local Monitoring			WiFi/	GPRS/R	S 485/E	THERNET	LAN/Lo	ocal Moni	toring				

OPTIONAL FEATURES FOR GRID TIE INVERTERS

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

CAPACITY (KW)	30	33	35	40	45	50	55	60	70	75	80	90	100	110	
MODELNUMBER	VS-302T	VS-332T	VS-352T	VS-403T	VS-453T	VS-503T	VS-554T	VS-604T	VS-704T	VS-754T	VS-804T	VS-904T	VS-10041	VS-110	
INPUT (DC)															
Max.DC input power (KW)	36.0	39.3	42.0	48.0	54.0	60.0	66.0	72.0	84.0	90.0	96.0	108.0	120.0	132	
Max. DC I/P (Vdc)				1000V							1000V				
Max. MPPT I/P Current (A)				40A							40A				
MPPT Short Circuit Current (A)				60A				60A							
MPPT Tracking Voltage (Vdc)	200-850V								2	00-850	V				
Min. Start Voltage (V)	250V									250V	_				
Number of MPPT Tracker	2 3					4	4			4			6		
Strings per MPPT Tracker				3				3				4			
OUTPUT (AC)															
Rated output power (KW)	30	33	35	40	45	50	55	60	70	75	80	90	100	11	
Rated Grid Voltage (V) / Range			230	V/(140-2	.95V)					230	V/(140-2	295V)			
Rated Grid freq. (Hz) / Range			50H	Hz/(45-5	5Hz)					50F	lz/(45-5	5Hz)			
Rated output current AC (A)	43.35	47.68	50.57	57.80	65.02	72.25	79.48	86.70	101.15	108.38	115.60	130.05	144.50	158	
AC Connection			3	3P + N + P	'E					. 3	P + N + P	È.			
THDI (%)				<3%							<3%				
Output Power factor			0.8 lead	ing to 0.	8 lagging	1				0.8 lead	ing to 0.	8 lagging	9		
EFFICIENCY															
Max. conversion Efficiency (%)		98.6			98	3.7					98.7				
Max. Euro Efficiency (%)		97.8			9	8					98.3				
MPPT Efficiency (%)				>99							>99				
PROTECTION								1							
Anti-Islanding Protection				YES							YES				
DC Reverse Polarity Protection				YES							YES				
Insulation Resistance Protection				YES				YES							
Ground Fault Protection				YES							YES				
Output Over Current Protection				YES				YES							
Output Short circuit Protection				YES				YES							
Output Over Voltage Protection				YES							YES				
DC Isolator Switch				YES				YES							
Surge Protection	DC:1	Type III / A	AC: Type		DC: Type	ell/AC:T	vpell			DC: Tvi	bell/AC	C: Type II			
GENERAL DATA		<u>, , , , , , , , , , , , , , , , , , , </u>	- 71		-)	, .	71			- 71	, .	J 1			
Dimensions (W*H*D) mm		362*577	*215		647 5*	537*303	3.5	· ·	700*575	*297		838	*568*32	3	
Weight (Kg)		25.5				44.5			60.0			000	73.7	0	
Topology		20.0		nsforme					00.0		nsformer	less			
Noise Emission (dB)			IIU	<45dB	1000					ITUI	<55dB	1000			
Display			I FD w	rith LCD [Display					I FD w	ith LCD [Display			
Cooling Method				rt Fan Co	-			Smart Fan Cooling							
Operating ambient Temperature				5°C ~ +6	<u> </u>						5°C ~ +6	<u> </u>			
Operating Humidity)% - 100						-	- 100				
Max. Operating Altitude (m)				>2000 [-	>2000 E	-			
Ingress Protection			2000 ((cruting)					2000 (/cruting)			
Night Consumption (w)	IP65						IP65								
Standard Warranty	<1 8 Years (extendable upto 10 Year)							<1 8 Years (extendable upto 10 Year)							
· · · · · · · · · · · · · · · · · · ·		016				cur)			016						
CONNECTION TYPE				MC 4							MC				
MC-4			10.4	MC-4	aluc			MC-4 IP65 rated plug							
IP65 rated plug			IPC	5 rated p	Jug					IP6	Statedp	Jug			
WiFi/GPRS/RS485/ETHERNET LAN/Local Monitoring	WiFi /	GPRS/F	RS 485 /	ETHERN	ET LAN / L	ocal Mo	nitoring	WiFi/	GPRS/R	S 485/E	THERNE	TLAN/Lo	ocal Mon	itorin	



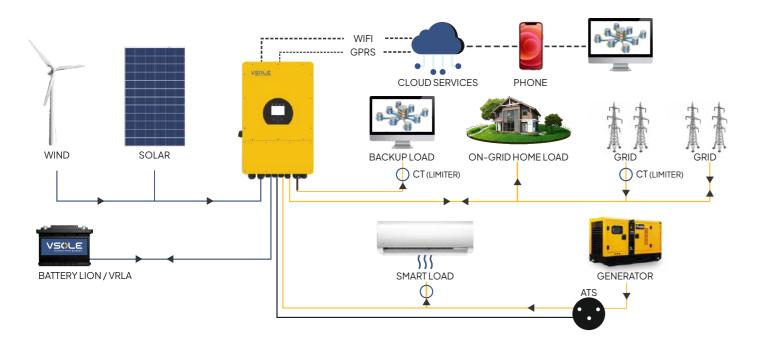
ZERO EXPORT FEATURE

BI-DIRECTIONAL HYBRID INVERTER VSS (03H-012H) 3.0KW-12.0KW

- 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/LiFP04)

- 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 AC, water heater, Micro & Grid tie inverter.
- 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
- V/f 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.







BI-DIRECTIONAL HYBRID INVERTER

	1	Single Phase								- Three Dhose					
	Single Phase								Three Phase						
CAPACITY (KW)	3KW 24V	3KW 48V	3.6KW 48V	4KW 48V	5KW 48V	6KW 48V	8KW 48V	5KW 48V	6KW 48V		10KW 48V				
MODELNUMBER	VS-324S	VS-348S	VS-3648S	VS-448S	VS-548S	VS-648S	VS-848S	VS-548T	VS-648T	VS-848T	VS-1048T	VS-1248T			
BATTERY INPUT DATA															
Battery Type	Lead-acid or Li-lon								Lead-acid or Li-Ion						
Battery Voltage Range (V)		20~30 40~60							40~60						
Max. Charging Current (A)	140	70	90	120	120	135	190	120	150	190	210	240			
Max. Discharging Current (A)	140	70	90	120	120	135	190	120	150	190	210	240			
Charging Curve	3 Stages / Equalization								3 Stages / Equalization						
Charging Strategy for Li-IonBattery			Self-a	daption t	o BMS				Self-a	adaption t	o BMS				
PV STRING INPUT DATA															
Max. DC Input Power (W)	3900	3900	4680	5200	6500	7800	10400	6500	7800	10400	13000	15600			
Rated PV Input Voltage (V)			37	0 (125~50)0)				55	0 (160~80	00)				
Start-up Voltage M				125						160					
MPPT Voltage Range (V)				150-425						200-650)				
Full Load DC Voltage Range (V)				300-425						350-650					
PV Input Current (A)	1	3		1	3		26		13		26+13				
Max. PV ISC (A)	1	6		1	7		34		17	34+17					
Number of MPPT/Strings per MPPT	1	/1		2/1+1 2/2+2					2/1+1	2/2+1					
AC OUTPUT DATA			1				1								
Rated AC Output and UPS Power (W)	3(000	3600	4000	5000	6000	8000	5000	6000	8000	10000	12000			
Max. AC Output Power (W)	33	300	3690	4400	5500	6600	8800	5500	6600	8800	11000	13200			
AC Output Rated Current (A)	13	13.6		18.2	22.7	27.3	36	7.6	9.1	12.1	15.2	18.2			
Max. AC Current (A)	1	5	18	20	25	30	40	11.4	13.6	18.2	22.7	27.3			
Max. Continuous AC Passthrough (A)			35		1	40	50		1	45	1	1			
Peak Power (off grid)			2 time of	rated po	wer, 10 S			2 time of rated power, 10 S							
Power Factor				ing to 0.8				0.8 leading to 0.8 lagging							
Output Frequency and Voltage		50/60	Hz; L/N/PI	-		ale phase)		50/60Hz; 3L/N/PE220/380, 230/400Vac							
GridType				ingle Pha		<u>, , , , , , , , , , , , , , , , , , , </u>		Three Phase							
DC injection current (mA)			THD<3%	<u> </u>					THD<3%	(Linear lo	ad<1.5%)				
EFFICIENCY					,					*	,				
Max. Efficiency				97.60%						97.60%					
Euro Efficiency				96.50%						97%					
MPPTEfficiency				99.90%				99.90%							
PROTECTION				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Integrated	PVI		ng Protection al Current Mo									tion,			
Output Over Voltage Protection					[DC Type II,	/AC Type I	11							
GENERAL DATA															
Operating Temperature Range (°C)			-45~60°	C, >45°C	derating				-45~60	°C, >45°C	derating				
Cooling	Natural Cooling								Sr	mart Cool	ing				
Noise (dB)	<30db									<45db	-				
Communication with BMS	RS485; CAN								F	S485; CA	N				
Weight (kg)		11.4 14							33.6						
Size (mm)			330W	/x433Hx				422W x 699.3H x 279D							
Protection Degree			5001	IP65						IP65					
Installation Style			\٨/:	all-mount	ed				\٨/	all-mount	ed				

4 LEVEL SERVICE SUPPORT

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

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

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

TTTTTTT

OUR PRESENCE



through the nearest center on the basis of nature of fault in the inverter.



www.vsolesolar.com

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Toll Free: 1800 120 9697 **f ⊻ © m** /vsolesolar