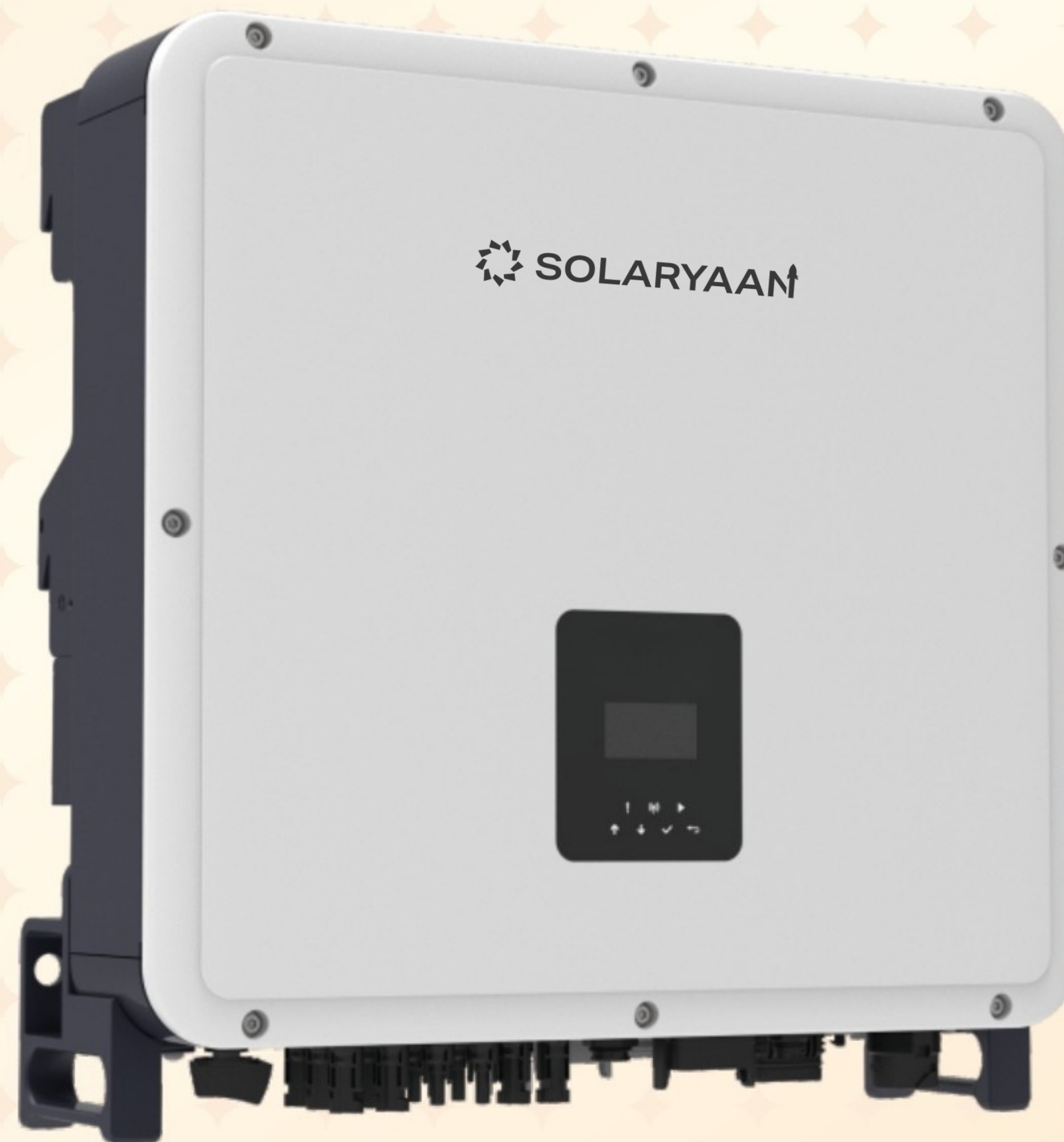


SYH3

THREE-PHASE HYBRID INVERTER



www.solaryaan.com



HIGH VOLTAGE

Includes high-voltage batteries for maximum round-trip efficiency



EASY INSTALLATION

Flexible configuration, plug and play set-up, built-in fuse protection.



IP 65 RATED

Engineered to last with maximum flexibility. Suitable for outdoor installation.



REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.

Harness the power of the sun day and night with the ground-breaking range of Hybrid inverter from Solar Yaan. Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Solar Yaan.

15KT – 30KT

+91 83 3388 3388

info@solaryaan.com

www.solaryaan.com

[in](#) [f](#) [@](#)solaryaan

Solaryaan : A 1002, Times Square 2, Sindhu Bhavan Road, Thaltej, Ahmedabad, Gujarat 380054

*Feature to be upgraded in the future. (T&C Apply)

Technical Specifications

Model	SYH3-15KT	SYH3-17KT	SYH3-20KT	SYH3-22KT	SYH3-25KT	SYH3-30KT
PV INPUT(ONLY FOR HYBRID)						
Max. Array Power [Wp]	30000	34000	40000	44000	50000	60000
Max. Recommended DC Power [W] [1]	7500/7500/7500	8500/8500/8500	10000/10000/10000	11000/11000/11000	12500/12500/12500	15000/15000/15000
Max. DC Voltage [V] [2]	1000					
Norminal DC Operating Voltage [V]	750					
Max. Input Current [A]	32					
Max. Short Circuit Current [A]	40					
MPPT Voltage Range [V]	150 ~ 850					
MPPT Voltage Range [V] (full load)	170 ~ 850	170 ~ 850	230 ~ 850	280 ~ 850	280 ~ 850	340 ~ 850
Start-up Voltage [V]	160					
No. of MPP Trackers	3					
Strings Per MPP Tracker	2/2/2					
Max. Inverter Backfeed Current to the Array	0					
BATTERY						
Battery Type	Lithium Battery					
Battery Voltage [V]	150 ~ 800					
Full AC Load Battery Voltage [V]	160 ~ 790	160 ~ 790	220 ~ 790	270 ~ 790	270 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]	50+50					
Number of Battery Input	2					
Communication Interface	CAN					
AC OUTPUT						
Norminal AC Power [VA]	15000	17000	20000	22000	25000	30000
Max. Apparent AC Power [VA]	16500	18700	22000	24200	27500	33000
Rated Grid Voltage (AC Voltage Range) [VAC]	400 / 230 ; 380 / 220 , 3L / N / PE					
Rated Grid Frequency [Hz]	50 / 60 , ±5					
Max. AC Current [A] (Per Phase)	25.0	28.50	37.7	36.81	41.7	50.0
Power Factor	1(Adjustable from 0.8 Leading to 0.8 Lagging)					
Export Control	YES					
THDI [%]	<3 @Rated Power					
AC INPUT						
Max. AC Power [VA]	22500	25500	30000	33000	35000	35000
Rated Grid Voltage (AC Voltage Range) [V]	400 / 230 ; 380 / 220 , 3L / N / PE					
Rated Grid Frequency [Hz]	50 / 60 , ±5					
Max. AC Current [A] (Per Phase)	34.1	38.8	45.5	50.20	53.0	53.0
Power Factor	1(Adjustable from 0.8 Leading to 0.8 Lagging)					
EPS OUTPUT						
Max. Apparent AC Power [VA]	15000	17000	20000	22000	25000	30000
Peak Apparent AC Power [VA] (60s)	18000	20400	24000	26400	36000	36000
Rated Output Voltage [V]	400 / 230 ; 380 / 220 , 3L / N / PE					
Rated Grid Frequency [Hz]	50 / 60					
EPS Max. Current [A] (Per Phase)	22.7	25.85	30.3	33.5	37.9	45.5
Power Factor	1(Adjustable from 0.8 Leading to 0.8 Lagging)					
Parallel Operation	Yes @Max10PCS					
Switch Time [ms]	<10					
THDV [%]	<3 @Rated Power					
EFFICIENCY						
MPPT Efficiency [%]	99.90	99.90	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.80	97.80	97.80	97.80	97.80	97.80
Max. Battery to AC Efficiency [%]	97.60	97.60	97.60	97.60	97.60	97.60
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10	98.10
Euro-Efficiency [%]	97.30	97.40	97.40	97.40	97.40	97.40
PROTECTION						
PV Reverse Polarity Protection	YES					
Battert Reverse Protection	YES					
Anti-Islanding Protection	YES					
Output Short Protection	YES					
Leakage Current Protection	YES					
Insulation Resistor Detection	YES					
Over Voltage Category	III (AC Side) , II (DC Side)					
Reverse Connect Protection	YES					
Over-current Protection / Over-temperature Protection	YES					
AC/DC Surge Protection	Type II/Type II					
AFCI Protection	Optional					
DC Switch	Optional					
String Monitoring Function	Optional					
GENERAL DATA						
Dimension (W*H*D) [mm]	600*560*225					
Dimension of Packing (W*H*D) [mm]	720*680*370					
Net Weight [kg]	52.5					
Gross Weight [kg]	57.5					
Installation	Wall-mounted					
Operating Temperature Range [°C]	-25 ~ +60 (Derating at 45)					
Storage Temperature [°C]	-40 ~ +70					
Noise Emission(typical) [dB]	<45	<45	<55	<55	<55	<55
Storage/Operation Relative Humidity [%]	0 ~ 95 (Without Condensation)					
Altitude [m]	<4000					
Protective Class	I					
Ingress Protection	IP65 (for Outdoor Use)					
Standby Consumption [W]	200 for Hot Standby , 20 for Cold Standby					
Idle Mode	YES					
Cooling	Smart FAN Cooling					
Inverter Topology	Non-isolated					
Communication Interface	Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485					
LCD Display	Backlight 16*4 Character					
Button	Capacitive Touch Sensor *4					
Buzzer	1, Inside (EPS&Earth Fault)					
STANDARD COMPLIANCE MORE AVAILABLE UPON REQUEST)						
Safety	EN 62109-1, EN 62109-2					
IEC/BIS	(IS 16221) (Part 2) : 2015 / IEC 62109-2: 2011 and IS 16169 : 2019 / IEC 62116: 2014 and IS 17980: 2022/ IEC 62891: 2020)					

*Feature to be upgraded in the future. (T&C Apply)