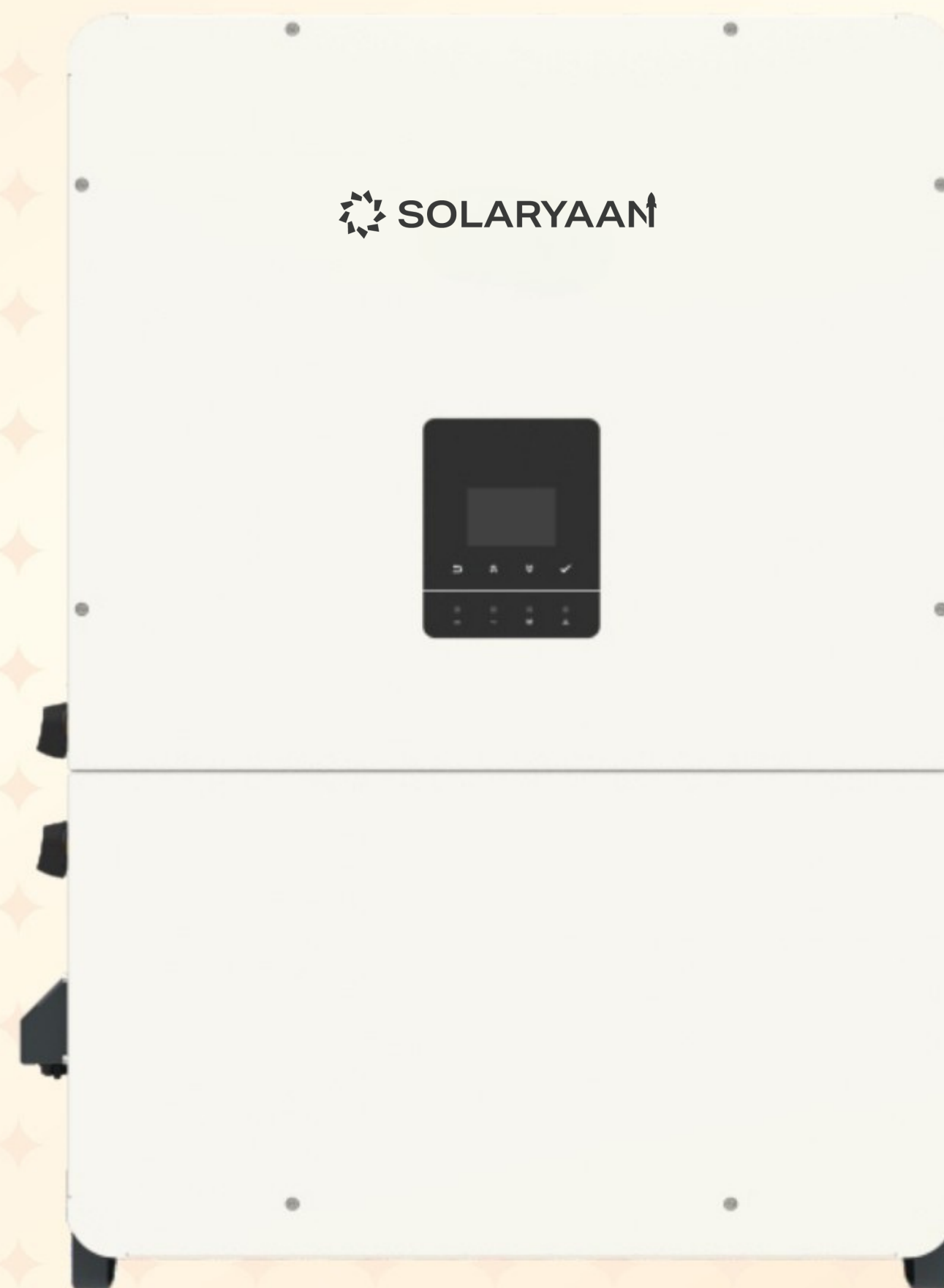


SYH Series

THREE-PHASE HYBRID INVERTER



www.solaryaan.com



LONG BACK UP CAPABILITY

More than 3 hours backup power available



EPS FUNCTION

Less than 10ms switch time.



HIGH EFFICIENCY

Ensuring optimal energy conversion and minimal losses.



FLEXIBLE APPLICATION

With power range and battery configuration to suit different project requirements.

Solar Yaan is a state-of-the-art hybrid inverter models designed for maximum efficiency and reliability. With outstanding specifications and advanced features it is a market changer in commercial applications.

50KT – 125KT

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

Technical Specifications

Model	SYH-50KT	SYH-60KT	SYH-75KT	SYH-80KT	SYH-100KT	SYH-110KT	SYH-125KT
BATTERY SPECIFICATION							
Battery Type	LFP						
Voltage Range [V]	180 ~ 950						
Max. Charging/Discharging Current [A]	3*80						
Battery Port	3						
Cmmunication	CAN						
DC SPECIFICATION							
Max. DC Array Power [kW]	100	120	150	160	200	220	250
Max. DC Input Power [kW]	100	120	150	160	200	220	250
Max. DC Voltage [V]	1000						
Input Voltage Range [V]	180 ~ 950						
Start up Voltage [V]	180						
MPPT Voltage Range [V]	180 ~ 850						
MPPT No. / String per MPPT	4/2	4/2	8/2	8/2	8/2	8/2	8/2
Max. Current per MPPT [A]	40						
Max. Short Circuit Current per MPPT [A]	55						
AC SPECIFICATION							
Nominal AC Output [kW]	50	60	75	80	100	100/110	100/125
Max. AC Output [kVA]	55	66	82.5	88	110	100/121	100/137.5
Nominal AC Output Current [A]	76.0	91.2	113.9	121.6	152	152/167.1	152/189.9
	72.2	86.6	108.3	115.5	144.4	144.4/158.8	144.4/180.4
Max. AC Output Current [A]	83.6	100.3	125.4	133.7	167.2	152/183.8	152/198.5
	79.4	95.3	119.1	127.0	158.8	144.4/174.7	144.4/198.5
Max. Bypass Current [A]	300						
Nominal AC Voltage [V]	380/400, 3W+N+PE or 3W+PE						
AC Output Voltage Range [Un]	0.8 ~ 1.2						
Nominal AC Input Frequency [Hz]	50/60						
Frequency Range [Hz]	45 ~ 55 / 55 ~ 65						
Power Factor	0.8 Leading ~ 0.8 Lagging						
Max. THDi [%]	<3						
DC Injec*on Current [%]	0.5						
On/off grid Switch Time [ms]	<10						
Peak Current (off-grid)	225A, 10s						
LRA Current [A]	300						
Max. THDu (Off-grid) [%]	<3 (Linear Load)						
DC SPECIFICATION							
Euro Efficiency [%]	97.6						
Max. Efficiency [%]	98.2						
PROTECTION							
DC Input Switch	Yes						
Battery Reverse Polarity	Yes						
PV Reverse Polarity	Yes						
AC Over Current Protection	Yes						
AC Output Short Circuit Protection	Yes						
AC/DC Surge Protection	Class II						
ISO Detection	Yes						
Residual Current Detection	Yes						
Ground Fault Detection	Yes						
AFCI	Yes						
String Current Detection	Yes						
GENERAL SEPECIFICATION							
Dimensaion (W*H*D) [mm]	730*990*305						
Weight [kg]	105	105	115	115	115	115	115
Working Temperature [°C]	-30 ~ 60						
Cooling Method	Smart Air Cooling						
Working Altitude [m]	4000						
Humidity [%]	0 ~ 100						
Noise [dB]	<70						
Night Consumption [W]	<60						
DC-Link EV Charger Ready [kW]	20 ~ 50						
IP Rating	IP65						
Topology	Non-Isolation						
Display	LED, Wi-Fi+APP						
Communication Ports	USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN						
CERTIFICATES							
BIS	IS 16221 (PART 2):2015/IEC 62109-2 :2011 & IS 16169 :2019/IEC 62116 :2014 and IS 17980: 2022/ IEC 62891: 2020						

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