

SYH Series

THREE-PHASE HYBRID INVERTER



10MS SWITCH TIME

Minimizes downtime and ensures continuous power supply without noticeable interruptions.



LONG BACK UP CAPABILITY

More than 3-30 hours backup power available



APPLICATION

Maximum no systems parallel with all grid functions & 10 piece on-grid and 4 piece off-grid



DIESEL ANOTHER SET OFF

offering the stable power



SUPPLY IN OFF-GRID BACK-UP SYSTEMS.

LRA Current 300A - supporting more demanding

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 | Industrial & Commercial Applications Including: HVAC Systems, Pumps, Compressors

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

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						
Communication	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	110	125
Max. AC Output [kVA]	55	66	82.5	88	110	121	137.5
Nominal AC Output Current [A] 380V 400V	76.0	91.2	113.9	121.6	152	167.1	189.9
	72.2	86.6	108.3	115.5	144.4	158.8	180.4
Max. AC Output Current [A] 380V 400V	83.6	100.3	125.4	133.7	167.2	183.8	198.5
	79.4	95.3	119.1	127.0	158.8	174.7	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							
Dimensiona (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						
Warranty	10 Years						
CERTIFICATES							
BIS	IS 16221 (PART 2):2015/IEC 62109-2 :2011 & IS 16169 :2019/IEC 62116 :2014 and IS 17980: 2022/ IEC 62891: 2020						