

SYH SERIES

5KT-15KT



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, more efficient.



IP 65 RATED

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



EASY INSTALLATION

Flexible configuration, plug & play set-up



REMOTE MONITORING

Monitor your system remotely via smart phone app or web portal.

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

Technical Specifications



Model	SYH-5KT		SYH-6KT		SYH-8KT		SYH-10KT		SYH-12KT		SYH-15KT	
PV INPUT												
Max. Array Power	11000Wp		14000Wp		18000Wp		20000Wp		24000Wp		30000Wp	
Max. DC Input Power	11000W		13200W		17600W		18000W		22500W		22500W	
Max. DC Voltage	1000V [1]											
Normalinal DC Operating Voltage	620V											
Max. MPPT Input Current	20A/20A/20A											
Max. MPPT Short Circuit Current	25A/25A/25A											
Max. MPPT Input Power	1000W/1000W/1000W											
Min. Operating PV Voltage	90V [2]											
MPPT Voltage Range	120V - 950V											
Start-up Input Voltage	140V											
No. of MPP Trackers	3											
Strings per MPP Tracker	1+1-1											
BATTERY												
Battery Type	Lithium-Ion battery (LFP)											
Battery Voltage	100V - 800V											
Min. Operating Battery Voltage	100V											
Min. Battery Voltage @Full AC Load	108V	125V	160V	210V	250V	310V						
Max. Charge/ Discharge Current	50.0A											
Communication Interface	CAN											
AC OUTPUT												
Normalinal AC Power	5000W	6000W	8000W	10000W	12000W	15000W						
Max. Apparent AC Power	5500VA	6000VA	8000VA	11000VA [3]	13200VA	16500VA						
Rated Grid Voltage (AC Voltage Range)	400V/230V; 380V/220V, 3L/N/PE											
Rated Grid Frequency	50Hz/60Hz, +5											
Rated AC Current (Per Phase)	7.6A	9.1A	12.1A	15.2A	18.2A	22.7A						
Max. AC Current (Per Phase)	8.3A	10.0A	13.3A	16.7A	20.0A	25.0A						
Power Factor	1(Adjustable from 0.8 leading to 0.8 lagging)											
THDI	<3% @rated power											
AC INPUT												
Max. AC Power	6000VA	7200VA	9600VA	12000VA	14400VA	16000VA						
Rated Grid Voltage (AC Voltage Range)	400V/230V; 380V/220V, 3L/N/PE											
Rated Grid Frequency	50Hz/60Hz, +5											
Max. AC Current (Per Phase)	9.1A	10.9A	14.5A	18.2A	21.8A	24.2A						
EPS OUTPUT												
Max. Apparent AC Power	5000VA	6000VA	8000VA	10000VA	12000VA	15000VA						
Peak Apparent AC Power (60s)	6000VA	7200VA	9600VA	12000VA	14400VA	15000VA						
Rated Output Voltage	400V/230V; 380V/220V, 3L/N/PE											
Rated Grid Frequency	50Hz/60Hz											
EPS Max. Current (Per Phase)	7.2A	8.7A	11.6A	14.5A	17.4A	21.7A						
Power Factor	1(Adjustable from 0.8 leading to 0.8 lagging)											
Switch Time	<10ms											
HDV	<3% @Linear load											
EFFICIENCY												
MPPT Efficiency	99.90%											
Max. Efficiency	97.30%	97.70%	97.70%	97.90%	97.90%	97.90%						
Euro-Efficiency	97.20%	97.20%	97.20%	97.20%	97.20%	97.20%						
PROTECTION												
PV Reverse Polarity Protection	YES											
Battery 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											
DC/AC Surge Protection	Type II(PV)/Type II(AC)											
AFCI Protection	Optional											
DC Switch	YES											
GENERAL DATA												
Dimensions (W*H*D)	600mm*450mm*226mm											
Dimension of Packing (W*H*D)	665mm*545mm*390mm											
Net Weight	34kg											
Gross Weight	40kg											
Installation	Wall-mounted											
Operating Temperature Range	-25°C - +60°C (Derating at 45)											
Storage Temperature	-40°C - +70°C											
Storage/Operation Relative Humidity	0% - 100%											
Altitude	<4000m @Derating exceeding 2000											
Protective Class	I											
Ingress Protection	IP65 (For outdoor use)											
Standby Consumption	20W-25W											
standby Mode	YES											
Cooling	Natural	Natural	Natural	Natural	FAN cooling	FAN cooling						
Noise Grade	<40dB	<40dB	<40dB	<40dB	<55dB	<55dB						
Inverter Topology	Non-isolated											
Communication Interface	Ethernet, EMS(RS485), Meter, WiLAN(Wifi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready											
Button	Capacitive touch sensor *4											
Buzzer	1, inside(EPS&Earth fault											
CERTIFICATES												
BIS	IS 16221 (PART 2):2015/IEC 62109-2 :2011 & IS 16169 :2019/IEC 62116 :2014 and IS 17980: 2022/ IEC 62891: 2020											

[1] For 1000V system, PV Maximum operating voltage is 950V.

[2] The starting working voltage of the power supply is 90V.

[3] Belgian safety regulations require an apparent power of 10000W to be 10000VA.