

Single Phase Hybrid Inverter–Pro

HyS–3/3.6/5/6K–E

Model	HyS3K-E	HyS3.6K-E	HyS5K-E	HyS6K-E
Battery Input Parameters				
Battery Type	Lithium or Lead-acid Battery			
Battery Voltage Range (V)	40~60			
Max. Charging Current (A)	70	90	120	125
Max. Discharging Current (A)	70	90	120	135
Charging Strategy for Lithium Battery	Self-adaptive Battery Management System			
Number of Battery Inputs	1			
PV Input Parameters				
Max. DC Input Power (W)	6000W	7200W	10000W	12000W
Max. DC Input Voltage (V)	500V			
Operating Voltage Range (V)	150~450V			
Start-up Voltage (V)	125V			
Max. Input Current (A)	20A		20/20A	
Number of MPPT Trackers	1		1+1	
AC Input / Output Parameters				
Rated AC Input/Output Active Power (W)	3000	3600	5000	6000
Max. AC Input/Output Apparent Power (VA)	3300	3960	5500	6600
Peak Power (Off-grid) (W)	>200%,15sec			
Rated AC Input/Output Current (A)	13.7/13.1	16.4/15.7	22.8/21.8	27.3/26.1
Max. AC Input/Output Current (A)	15/14.4	18/17.3	25/24	30/28.7
Max. Continuous AC Bypass (Grid to Load) (A)	35	35	35	40
Rated AC Input/Output Voltage Range (V)	220/230V, 0.85Un~1.1Un			
Grid Connection Type	L+N+PE			
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz			
Power Factor Adjustment Range	1(0.8 leading – 0.8 lagging)			
Total Harmonic Distortion (THDi)	<3%(of nominal power)			
DC Injection Current	<0.5%In			
Efficiency				
Max. Efficiency	97.6%			
European Efficiency	97%			
MPPT Tracking Efficiency	>99%			
Equipment Protection				
Integrated Protections	DC Reverse Polarity, AC Output Overcurrent, Over-temperature, AC Output Overvoltage, Short Circuit, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI, optional), Anti-islanding Protection, DC Switch, Insulation Resistance Detection, Residual Current Detection			
Surge Protection Class	Type I (DC), Type II (AC)			
Interface				
Communication Interfaces	RS485/CAN			
Monitoring modes	GPRS / WiFi / Bluetooth / 4G / LAN (optional)			
General Parameters				
Operating Temperature (°C)	-40°C~+60°C(derating above 45°C)			
Storage Temperature (°C)	-30~65°C			
Relative Humidity	0~100%			
Operating Altitude (m)	≤4000m (derating above 2000m)			
Cooling Method	Intelligent Forced Air Cooling			
Noise (dB)	<50dB			
Weight (kg)	13kg			
Dimensions	338*480*205mm			
IP Rating	IP66			
Topology	Non-Isolated			
Safety / EMC Certification	IEC62109, IEC61000, IS16169 & IS16221(BIS)			
Grid Compliance	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinace No.140			
Other Certifications	IEC61683, IEC62116, EN50530, IEC60068			