




Hybrid Inverter For Storage System

HY-4000 / HY-5000

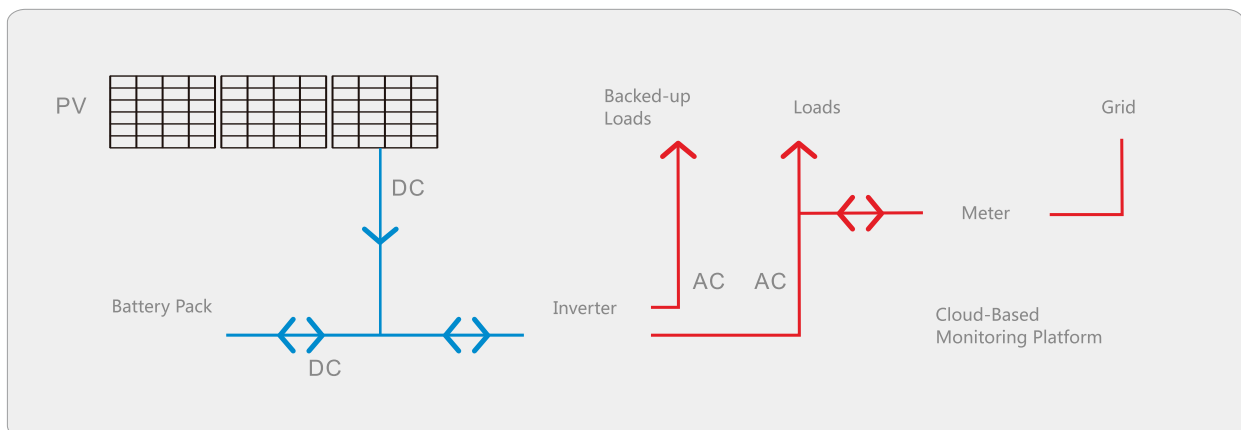
-  Maximum Efficiency : 97.6%
-  European Efficiency : 97.0%
-  Remote Upgrade Available



BATTERY MANAGER

Battery Type	Lead-acid Battery, Lithium Battery
Battery Nominal Voltage(V)	48
Battery Voltage Range (V)	40-60
Charging Curve	Three-stage Adaptive with Maintenance
Over Current Protection	Y
Over Temperature Protection	Y
Communication with Inverter & Battery	CAN/RS485
Maximum Charge/Discharge Current	100A
Electromagnetic Compatibility	EN61000-6-1,EN61000-6-2,EN61000-6-3, EN61000-6-4,EN61000-3-11,EN61000-3-12

CIRCUIT DIAGRAM



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TECHNICAL DATA

MODEL	HY-4000	HY-5000
Input(Solar)		
Max. Recommended DC Power [W]	4000	5000
Max. DC Voltage[V]	580	
MPPT Voltage Range [V]	125-550	
Nominal DC Operating Voltage[V]	360	
Max. Short Circuit Current [A]	15/15	
Max. Input Current [A]	12/12	
DC Input Number	2	
Number of MPP Trackers	2	
Output(AC)		
Grid Connection	Single Phase	
AC Nominal Power [W]	3680	4600
Power Factor (Rated Power)	1	
Nominal AC Voltage Range [V]	230Vac 50/60Hz; 180~270Vac	
AC Nominal Current [A]	16	20
Max. AC Current [A]	17.7	22.1
Power Factor	>0.99	
Total Harmonic Distortion (THD)	<3%	
Off-gridOutput	230Vac ±2%, 50Hz/60Hz±2%, THD<3%	
Overload	1.5×P. rated, 10s	
Safety & Protection		
Residual Current Protection	Integration	
Insulation Resistance Detection	Integration	
Over Current Protection	Integration	
Islanding Protection	Integration	
Others		
Weight [kg]	35	
Dimensions (W /H / D) [mm]	601*522*204	
Installation	Wall-mounted	
Operating Temperature Range [°C]	-25°C~+60°C(derating at 45°C)	
Humidity [%]	0~95%	
Altitude [m]	<2000m	
Degree of Protection	IP 65	
Topology	Transformer-less	
Cooling Concept	Natural Convection	
Noise Emission (Typical) [dB]	<25	
Overvoltage Category	III(Electric Supply Side), II(PV Side)	
Warranty	Standard Five Years	
Grid-connected	VDE-AR-N 4105, AS4777.2/3	
Safety Standard	IEC62109-1&-2, AS3100, IEC62040-1	