



	HB1030 EH024	HB1030 EH048	HB1036 EH048	HB1040 EH048	HB1046 EH048	HB1050 EH048	HB1060 EH048	
PV								
PV	3900W	3900W	4680W	5200W	5980W	6500W	7800W	
PV	550Vdc							
PV	90Vdc							
MPPT	370Vdc(125-500V)							
MPPT	280-500Vdc							
PV	13A						13A+13A	
PV	17A						17A+17A	
MPPT /	1/1						2/1+1	
AC								
220V/230Vac								
50/60Hz(±5) /								
	13A	13.6A	16.4A	18.2A	20.9A	22.7A	27.2A	
	15A	15A	18A	20A	23A	25A	30A	
	3000W	3000W	3600W	4000W	4600W	5000W	6000W	
	3300VA	3300VA	3960VA	4400VA	5060VA	5500VA	6600VA	
	3300W	3300W	3960W	4400W	5060W	5500W	6600W	
	0.5% In							
	L+N+PE							
(cosφ)	0.99 @		0.8		-0.8			
(THDi)	3%							
(THDu)	2%()							
	10ms()							
	105% , 106%-120% 1min , >125% 10S							
	3 / / BMS							
	24Vdc(20-30V)	48Vdc(40-60V)						
	120A	70A	90A	100A	115A	120A	120A	
	100A	70A	90A	100A	100A	100A	100A	
PV								
PV	97.6%							
	97.0%							
MPPT	99%							
AC								
	+LED							
	RS485/CAN/DRM			4G/WIFI/GPRS/				
	DC Type II / AC Type III							
(dB)	30							
	-25°C-60°C(45)							
	0-100%							
	3000m (>2000m)							
	15W							
	IP66							
W*D*H (mm)	505*188*410							
(kg)	25			28				
	5 /10							



HOUSEHOLD ENERGY STORAGE SYSTEM

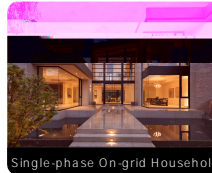


SINGLE-PHASE HYBRID SOLAR INVERTER

HB1030EH024 1060EH048 SERIES

Application Scenarios

Small household single-phase hybrid energy storage system, suitable for new installation or modification of photovoltaic



Application System Diagram



Product Data Sheet

MODEL	HB1030 EH024	HB1030 EH048	HB1036 EH048	HB1040 EH048	HB1046 EH048	HB1050 EH048	HB1060 EH048
PV Input							
Max PV Input Power	3900W	3900W	4680W	5200W	5980W	6500W	7800W
Max PV Input Voltage	550Vdc						
PV Input Startup voltage	90Vdc						
MPPT Input Voltage	370Vdc(125-500V)						
MPPT Full Load Voltage Range	280-500Vdc						
PV Max Input Current	13A					13A +13A	
PV Short-circuit Current	17A					17A +17A	
Number of MPPT / Strings per MPPT	1/1					2/1+1	
A C Output							
Rated Output Voltage	220V/230Vac						
Output Frequency Range	50/60Hz(±5) Intelligent adaptive/Settable						
Rated Output Current	13A	13.6A	16.4A	18.2A	20.9A	22.7A	27.2A
Max Grid-connected Current	15A	15A	18A	20A	23A	25A	30A
Rated Grid-connected Power	3000W	3000W	3600W	4000W	4600W	5000W	6000W
Max Grid-connected Viewing Power	3300VA	3300VA	3960VA	4400VA	5060VA	5500VA	6600VA
Max Grid-connected Active Power	3300W	3300W	3960W	4400W	5060W	5500W	6600W
DC Component	0.5% In						
Grid Type	Single-phase L+N+PE						
Output Power Factor(cosφ)	0.99 @ Rated power Adjustable 0.8 leading-0.8 lagging						
THDI	3%						
THDu	2%(Linear load)						
Transfer Time	10ms(Typical value)						
Off-grid Overload Capability	105%Long-term work , 106%-120% 1min , >125% 10S						
Ba ttery Input							
Battery Type	Lead-acid, lithium batteries, gel batteries, etc						
Charging Mode	3-section type/Equilibrium/Self-adaption BMS						
Battery Voltage	24Vdc(20-30V)	48Vdc(40-60V)					
Max Discharge Current	120A	70A	90A	100A	115A	120A	120A
Max Charging Current	100A	70A	90A	100A	100A	100A	100A
Efficiency							
Max PV Conversion Efficiency	97.6%						
European Efficiency	97.0%						
MPPT Efficiency	99%						
General Parameters							
Display	Touch Screen+LED						
Communication Mode	Standard RS485/CAN/DRM Optional 4G/WIFI/GPRS/Temperature compensation module						
Surge Protection	DC Type II / AC Type III						
Noise (dB)	30						
Cooling	Natural convection						
Operating Ambient Temperature	-25°C ~ 60°C(45 Derating)						
Humidity	0-100%						
Altitude	4000m (>2000m Derating)						
Electricity Consumption At Night	15W						
Protection Degree	IP66						
Installation Method	Wall-mounted						
Dimension. W*D*H(mm)	505*188*410						
Weight (kg)	25					28	
Warranty	5 years standard/10 years optional						

Specifications are subject to change without advance notice.