

ES SERIES

ON&OFF GRID HYBRID SOLAR INVERTER



Cut peaks and fill valleys



Full protection



Two-road of input



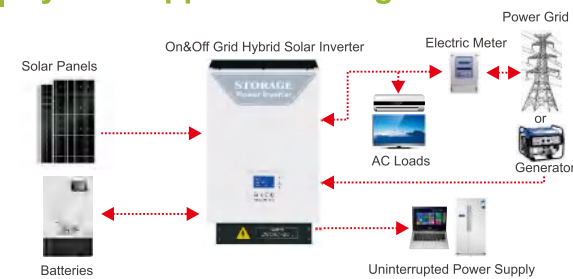
Two-way energy storage design



Features

- Low frequency integrated intelligent energy management system, a variety of modes can be set.
- Cut peaks and fill valleys to reduce grid pressure and maximize profits.
- Dual MPPT input, precise algorithm, efficient use of PV energy.
- 3-stage/2-stage charging technology to protect battery life.
- Two-way energy storage design, PV, mains can charge the battery.
- Support RS485 communication port/APP(Optional).

System Application Diagram



Product Display



Household



Industrial and commercial energy storage



Airport/high-speed rail station



Thermal power station/nuclear power station



Agricultural Irrigation



Farm use



Technical Parameters

Model: ES	30248	50248	80296	10396	153192	203192	253240
PV Input							
Max PV Input Voltage(Voc) (at the lowest temperature)	150VDC		300VDC		450VDC		500VDC
MPPT Tracking Voltage Range	60V~120VDC		120V~240VDC		240V~360VDC		300V~400VDC
Maximum PV Input Power/ Tracking Channels	1960W*2 / 2	3360W*2 / 2	5000W*2 / 2	6150W*2 / 2	8.8KW*2 / 2	11.2KW*2 / 2	14KW*2 / 2
Battery							
Battery Type	Lead-acid battery / Lithium battery / Custom battery						
Standard Battery Voltage	48VDC		96VDC		192VDC	192VDC	240VDC
Maximum Charging Current (can be set, recommended 0.1C)	70A (PV) 35A (AC)	120A (PV) 60A (AC)	100A (PV) 40A (AC)	110A (PV) 60A (AC)	80A (PV) 40A (AC)	110A (PV) 60A (AC)	110A (PV) 60A (AC)
AC Input							
Rated Voltage	220VAC/230VAC						
Input Voltage Range	187VAC~264VAC						
Rated Input Frequency	43HZ~53HZ (50HZ) /53HZ~63HZ (60HZ)						
Anti-Islanding Protection	≤2S						
Reconnection Time	30S						
AC Output (ON GRID)							
Rated Output Power	3KW	5KW	8KW	10KW	15KW	20KW	25KW
Rated Output Current	13.6A	22.7A	36.4A	45.5A	68.2A	90.1A	113.6A
AC Output Voltage/Frequency	187VAC~264VAC 47~52HZ/57~62HZ						
Power Factor	1						
AC Output (OFF GRID)							
Rated Power	3KW	5KW	8KW	10KW	15KW	20KW	25KW
AC Output Voltage/Frequency	220VAC/230VAC 50HZ/60HZ						
Other							
Protection	Battery undervoltage protection/Battery overvoltage protection/Battery overvoltage recovery voltage/ Overload power protection/Short circuit protection/Overtemperature protection						
Display	LCD+LED						
Communication (optional)	RS485 communication, mobile APP (WIFI monitoring or GPRS monitoring)						
Operating Temperature	-15℃~40℃(derating above 45℃)						
Relative Humidity	0%~95%,no condensation						
Altitude	2000m(more than derating)						
Protection Degree	IP20						
Cooling Method	Cooling fan in intelligent control						
Dimensions and Weight							
Product size (L*W*Hmm)	592*380*265		550*380*675		620*380*825		
Package size(L*W*Hmm)	650*435*290		610*440*800		680*440*950		
N.W.(kg)	36	45	70	75	128	134	140
G.W.(kg)	40	49	80	85	140	146	152

Note: 1. Specifications are subject to change without prior notice; 2. Special voltage and power requirements can be customized according to the actual situation of users.