

# ES SERIES

## ON&OFF GRID HYBRID SOLAR INVERTER



Cut peaks and fill valleys



Two-road of input



Full protection



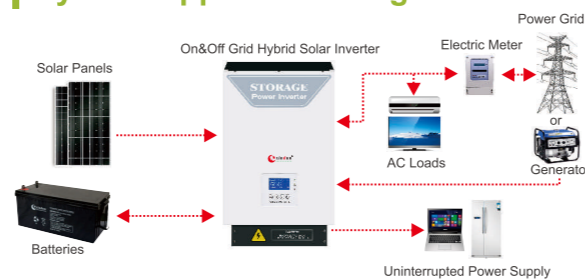
Two-way energy storage design



### 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
<b>PV Input</b>							
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
<b>Battery</b>							
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 )
<b>AC Input</b>							
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						
<b>AC Output (ON GRID)</b>							
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						
<b>AC Output (OFF GRID)</b>							
Rated Power	3KW	5KW	8KW	10KW	15KW	20KW	25KW
AC Output Voltage/Frequency	220VAC/230VAC 50HZ/60HZ						
<b>Other</b>							
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°C~40°C(derating above 45°C)						
Relative Humidity	0%~95%,no condensation						
Altitude	2000m(more than derating )						
Protection Degree	IP20						
Cooling Method	Cooling fan in intelligent control						
<b>Dimensions and Weight</b>							
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.