



**15kW / 39-54kWh**  
**30kW / 62-93kWh**

ESS-GRID DyniO Series combine 3 Phase hybrid inverter, BMS and batteries together, make it easier to build your solar storage solution in a time. Plug and play design even makes the installation procedure and the maintenance work easier. From 15kW to 30kW, the power, capacity or the appearance can all be customized.



Modular and scalable



Maximum 3 in parallel



Maximum conversion efficiency of 97.8%



150% overload capacity



Supports oil-engine hybrid operations



Seamless switching between parallel and off-grid (<5ms)



Meets a variety of use scenarios



Remote monitoring and management



Efficient energy management

## 3 Phase Hybrid Inverter



### System Parameters

Communication Port	EMS:RS485 Battery: CAN/RS485
DIDO	DI: 2-way DO: 2-way
Maximum power	97.8%
Installation	Insertion Frame
Loss	Standby <10W, No-load power <100W
Protection	IP20
Temperature Range	-30~60°C
Humidity Range	5~95%
Cooling	Intelligent Forced Air Cooling
Altitude	2000m (90%/80% reduction for 3000/4000 meters respectively)
Inverter Certification	IEC61000/EN50549/IEC62619/ NRS/CE/UN38.3
Battery Certification	IEC62619/IEC62040/IEC62477 CE/UN38.3

### Battery Parameters

Battery Model	HV PACK8	HV PACK5
Number Of Battery Packs	8	5
Rated Voltage (V)	460.8	288
Voltage Range (V)	403.2-504.0	252.0-315.0
Rated Energy (kWh)	62.2	38.9
Max. Discharging Current (A)	68	
Cycle Life	6000 Cycles @80% DOD	

### PV Parameter

Inverter Model	INV C30	INV C15
Maximum Power	19.2kW+19.2kW	19.2kW+19.2kW
Maximum PV Voltage	850V	
PV Starting Voltage	250V	
MPPT Voltage Range	200V-830V	
Maximum PV Current	32A+32A	32A+32A

### AC Side (Grid-connected)

Rated Power	30kVA	15kVA
Rated Current	43.5A	22A
Rated Grid Voltage	400V/230V	
Grid Voltage Range	-20%~15%	
Voltage Frequency Range	50Hz/47Hz~52Hz	
	60Hz/57Hz~62Hz	
Voltage Harmonics	<5% (>30% Load)	
Power Factor	-0.8~0.8	

### AC Side (Off-grid)

Rated Output Power	30kVA	15kVA
Maximum Output Power	33kVA	16.5kVA
Rated Output Current	43.5A	22A
Maximum Output Current	48A	24.2A
Rated Voltage	400V/230V	
Output Voltage Harmonics	< 3% (Resistive Load)	
Unbalance	100%	
Frequency Range	50/60Hz	
Output Overload (Current)	48A < I load ≤54A/100S	1.1x continuous /
	54A < I load ≤65A/100S	1.25x 30S / 1.5x 0.1S

### System Parameters

Weight	617kg	407kg
Dimension(W*D*H,mm)	590*713*1795(±5)	590*713*1345(±5)