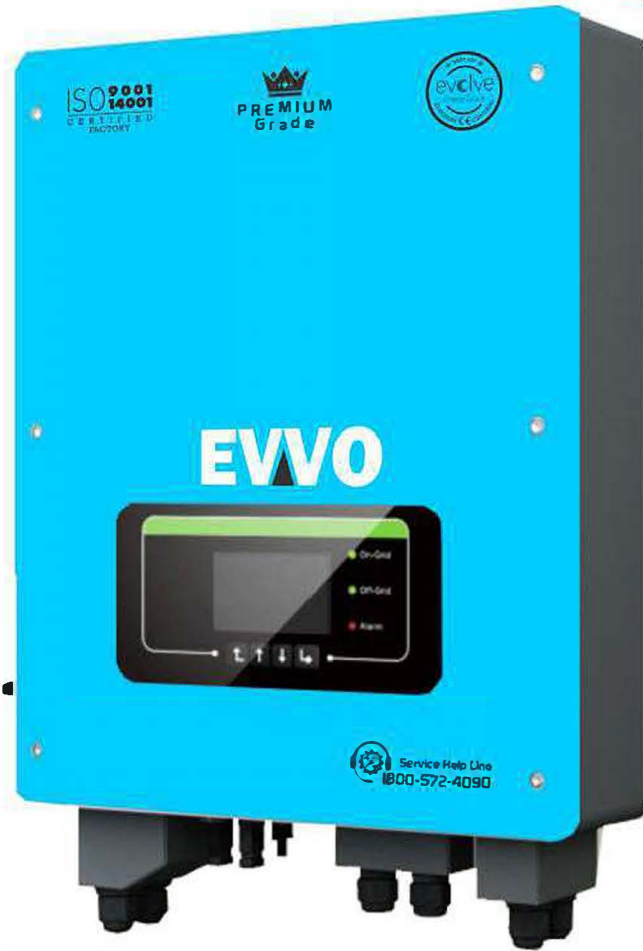




Warranty

HYBRID INVERTER



High Performance



High Efficiency

EWVO

HYBRID INVERTER



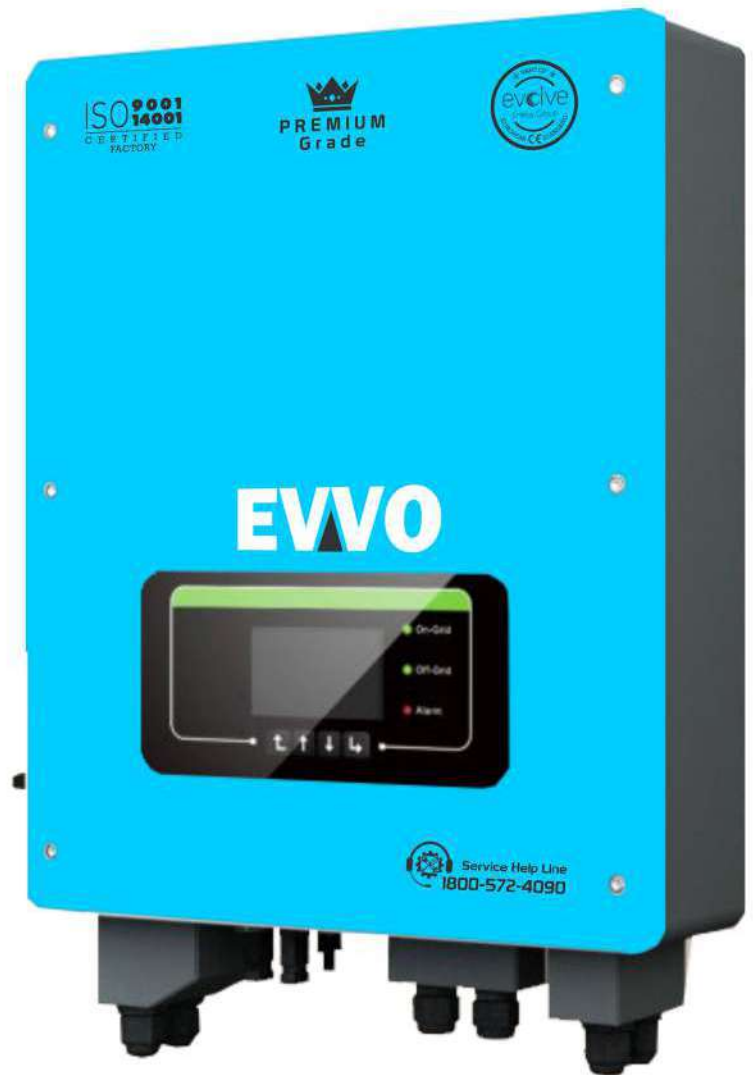
**EVVO HYD 3000ES/4000ES/5000ES/6000ES**

**EVVO**

**HYD E-3k~6k-ES**

**Single - Phase**

**Energy storage  
integrated inverter**



- Outdoor IP65 design
- A variety of work modes are optional
- Built - in Zero Export function
- Compatible with the two functions of the grid
- EPS function, switching time is less than 10ms
- Flexible configuration of lead acid or lithium battery
- Integrated fanless self-recognition heat dissipation design

# EVVO HYD 3000ES/4000ES/5000ES/6000ES

## Single-Phase - Energy storage integrated inverter

Datasheet	EVVO 3000-ES	EVVO 3600-ES	EVVO 4000-ES	EVVO 5000-ES	EVVO 6000-ES
<b>Battery Parameters</b>					
Battery Type	Lithium-Ion, Lead-acid				
Nominal battery voltage	48V				
Battery voltage range	42-58V				
Battery Capacity	50-2000Ah				
Maximum Charging / Discharging Power	3000W				
Maximum Charging Current	65A (Programmable)				
Maximum Discharging Current	70A (Programmable)				
Charging curve(Lithium-Ion)	BMS				
Charging curve(Lead-acid)	3-Stage adaptive with maintenance				
Depth of discharge	Lithium-Ion: 0-90% 000 adjustable, Lead-acid:0-50% 000 adjustable				
<b>Input DC(PV side)</b>					
Recommended PV input power	3500W	4000W	4400W	5500W	6600W
Max DC power for single MPPT	2000W	2400W	2600W	3000W	3500W
The max DC input voltage	600V				
Start-up DC voltage	120V				
Nominal DC Voltage	360V				
MPPT operating voltage range	90-580V				
Full load DC voltage range	160V-520V	180V-520V	200V-520V	250V-520V	300V-520V
MPPT number	2				
The max DC input current	12A/12A				
The max DC input short current	15A/15A				
<b>Output AC(Grid side)</b>					
Rated Power	3000W	3680W	4000W	5000W	6000W
Max. Output Power	3000VA	3680VA	4000VA	5000VA	6000VA
Nominal Grid Voltage	L/N/PE, 220, 230, 240				
Operation phase	Single (L-N-PE)				
Max. Input / Output current	13.7A	16A	18.2A	22.8A	27.3A
AC voltage Range	180V-276V (According to local standard)				
Grid Frequency range	44-55Hz/54-66Hz (According to local standard)				
THD	<3%				
Power factor	1 default (+/-0.8 adjustable)				
<b>Output AC(Emergency Power Supply)</b>					
EPS rated power	3000VA				
Operation phase	Single (L-N-PE)				
EPS rated voltage,Frequency	230V, 50/60Hz				
EPS rated current	13A				
Peak Output Apparent Power	4000VA, 10s				
THD	180-276Vac (According to local standard)				
Switch time	10ms default				
<b>Efficiency</b>					
MPPT efficiency	99.9%				
Max efficiency of solar Inverter	97.6%	97.6%	97.6%	97.8%	98.0%
European efficiency of solar Inverter	97.2%	97.2%	97.2%	97.3%	97.5%
Max. Charging efficiency of battery	94.6%				
Max. DisCharging efficiency of battery	94.6%				
<b>Protection</b>					
PV reverse polarity protection	Yes				
PV insulation detection	Yes				
Ground fault monitoring	Yes				
Over current protection	Yes				
Over voltage protection	Yes				
Battery soft start protection	Yes				
<b>General Data</b>					
Ambient temperature range	-30°C-->60°C (Above 45°C Derating)				
Standby Losses	<5W				
Topology	High frequency insulation (for bat)				
DC-Switch	Yes				
Degree Of Protection	IP65				
Allowable Relative Humidity Range	0-100%				
Communication	RS485, Wifi/Ethernet/GPRS, SD, CAN2.0				
Protective class	Class I				
Max. Operating Altitude	2000m				
Current Sensor Connection	External				
Noise	<25dB				
Weight	20.5kg				
Cooling	Natural				
Dimension (W*H*D)	566*394*173 mm				
Display	LCD display				
Warranty	8 Years				
<b>Standard</b>					
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12				
Safety standards	IEC62109-1/2, IEC62040-1, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)				
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50438/EN50549, G83/G59/G98/G99, UTE C15-712-1, UNE 206 007-1				

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