



The R&D team of Winsway was established in 2006, with more than 60 engineers. The company has more than 100 invention patents, utility models and software copyrights. The R&D covers software and hardware systems related to bi-directional inverter, battery management system, light energy conversion, on/off grid-connected control, energy scheduling, heat dissipation management, etc.





The manufacturing team of Winsway has inherited more than 30 years of experience in manufacturing automotive electronic products, and has an efficient and standard manufacturing system to ensure the output of high quality products. The company has complete manufacturing capability of electronic board processing, battery packing and complete machine assembly lines. Winsway has passed IS09001/14001, SA8000 and other system certifications, and the products have passed international certifications such as TUV S-Mark, VDE, PSE, KC, BIS and UL.





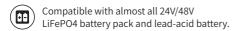




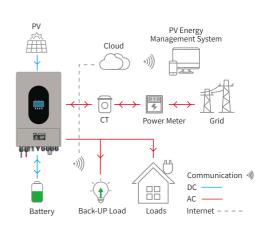
PRODUCT FEATURES



Multiple operating modes, on-grid, off-grid and UPS. MPPT control.



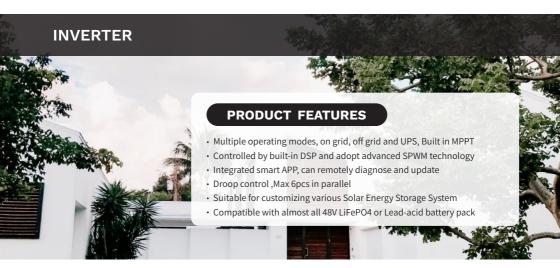
- Integrated smart APP, can remotely diagnose and update.
- One key to reactive the LiFePO4 battery pack/pre-charge the input stage.
- Frequency droop control, Max. 6pcs parallel. DC couple and AC couple to retrofit existing solar system.





Model	ED3600	ED4600	ED5000
PV Input (DC)			
Max. DC input power (W)	5200W	6600W	7000W
Max PV input voltage (V)	323311	500V	700011
Starting voltage	150V		
PV input voltage range	150V-500V		
MPPT voltage range	120V-430V		
MPPT quantity	2		
Max string quantity to each MPPT group	1		
Max input current	15A/15A		
Output/Input (AC)		15/(15/1	_
Rating output power	3600W	4600W	5000W
Maximum output apparent power	3960VA	5000VA	5500VA
Max output current	17.2A	22A	23.9A
Rating grid voltage	11.20	220V/230V/240V	23.3A
Rating grid voltage Rating grid frequency	50/60Hz autotracking		
Total current waveform distortion rate			
DC component	<3% (Rating power)		
Power factor range	<0.5%In >0.99@ Full power (Adjustable range 0.8 lead ~0.8 lag)		
Off grid output	70.99@ Full p	ower (Aujustable range 0.6 le	au -0.0 tag)
,	3600W	450	OW
Max output power	360000	230V	OVV
Rating output voltage			
Rating output frequency	50Hz(60Hz Optional)		
UPS switching time	<20 ms		
Total harmonic distortion (linear load)	110	<3%	
Overload capacity	110	%,30S /120%,10S/ 150% 80m	IS .
Battery		41 CV FO FV	
Voltage range	200 A (D) (0 A C) I devided also are in a)	41.6V-58.5V	المستعلم المتسط
Max charging current	80A (PV&AC Hybrid charging) 95A (PV&AC Hybrid charging)		
Max discharging current	85A 100A		
Battery type	Lithium battery / lead-acid battery		
Communication interface		RS485/Can	
Efficiency	070/ 14 11 65 05	0/ MDDT (ft.: 00.000/	
Max efficiency:98%; European efficiency:	97%; Max discharge efficiency:95	%; MPPT efficiency:99.90%	
System		IDGE	
IP inclosure	IP65		
Noise	<35dB		
Ambient temperature	-25°C-60°C		
Cooling mode	Natural cooling		
Ambient humidity	0-95% non-condensing		
Altitude	No derating below 2000m		
Shutdown self power consumption	<3W		
Display	LCD		
Communication	RS485/USB/CAN/Wifi(GPRS optional)		
	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-1-3, VDE-AR-N4105,EN50549,G99,CEI-021,AS/NZS4777.2, RD1699(UNE 206006 IN:2011/UNE 206007-1 IN:2013/UNE 217002:2020)		
Certificate			
Warranty	5 Years (Standard)		
Mechanical			
Size L*W*H	580mm×350mm×230mm		
Install method	Wall mounted		
Weight	23.5Kg		
	OEM and ODM are ava		
Customized pr	oducts available , completed en	ergy storage system availab	le.

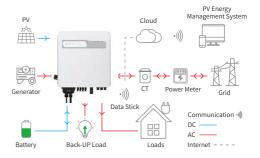




ED8000

On / Off Grid Hybrid Inverter

- Power generated by the PV array or a diesel generator or from the Utility Grid can be stored in a battery or to be used to power your loads.
- Power generated by the PV array or stored inside the battery can be sold to the Utility Grid or to be used to power your loads.



Model	ED8000
Battery Input Data	
Battery Type	Lithium / Lead-Acid
Nominal Battery Voltage (V)	51.2
Battery Voltage Range (V)	41.6 ~ 58.5
Max. Continuous Charging Current (A)	190
Max. Continuous Discharging Current (A)	190
Max. Charge Power (W)	9200
Max. Discharge Power (W)	9200
PV String Input Data	
Max. Input Power (W)	10400
Max. Input Voltage (V)	500
MPPT Operating Voltage Range (V)	120-430
Start-up Voltage (V)	150
Nominal Input Voltage (V)	360
Max. Input Current per MPPT (A)	22
Max. Short Circuit Current per MPPT (A)	30
Number of MPPT Trackers	2
Number of Strings per MPPT	2



AC Output Data (On-grid)	9000	
Nominal Apparent Power Output to Utility Grid (W)	8000	
Max. Apparent Power Output to Utility Grid (VA)	8000	
Max. Apparent Power from Utility Grid (VA)	8000	
Nominal Output Voltage (V)	230 / 120	
Nominal AC Grid Frequency (Hz)	50 / 60	
Max. AC Current Output to Utility Grid (A)	38.5	
Max. AC Current From Utility Grid (A)	38.5	
Type of Infeed	Split-phase	
Max. Total Harmonic Distortion	<3%	
Power Factor	~0.99 (Adjustable from 0.8 leading to 0.8 lagging)	
Switch Time	<10 ms	
AC Output Data (Back-up)		
Back-up Nominal Apparent Power (W)	8000	
Max. Output Apparent Power (VA)	8000	
Max. Output Current (A)	38.5	
Nominal Output Voltage (V)	230 / 120	
Nominal Output Frequency (Hz)	50 / 60	
Output THDv (@Linear Load)	<3%	
Conversion Efficiency		
Max. Efficiency	98%	
EU Efficiency	97%	
Max. Battery to AC Efficiency	95%	
MPPT Efficiency	99.9%	
Protection		
PV Insulation Resistance Detection	Integrated	
Residual Current Monitoring	Integrated	
Anti-islanding Protection	Integrated	
AC Overcurrent Protection	Integrated	
AC Short Circuit Protection	Integrated	
AC Overvoltage Protection	Integrated	
DC Switch		
	Integrated	
Remote Shutdown	Integrated	
Environmental / Ambient Conditions	05	
Operating Temperature Range (°C)	-25 ~ +60	
Excess Temperature Behaviour	Continuous power reduction (derating)	
Relative Humidity	0 to 95 % (climate class 4k6), non-condensing	
Installation Altitude above Sea Level	up to 2000 m above sea level	
Installation Location	Inside & Outside	
Cooling Method	Free Convection	
Mechanical Data		
Dimensions (W×H×D)	480x550x250mm	
Weight (kg)	32	
Protection Type (in accordance with IEC 60529)	IP65	
Installation Type	Wall Installation with Wall Bracket	
Communications		
Communication with BMS	CAN	
Communication with Meter	RS485	
Communication with Portal	WiFi	
Display	LCD, WLAN + APP	
Monitoring Settings	Integrated data logger	
Other Data		
Topology	Transformerless	
	<10	
Self-consumption at Night (W)	<10	





ED1500-EO

Off Grid Hybrid Inverter

PRODUCT FEATURES

- Rated Power: 1kw ~ 3kw.
- Built-in MPPT solar charging controller.
- Pure sine wave AC output.
- WiFi Remote control.
- Compatible with grid voltage or generator.
- Configurable AC / solar input is preferentially set by LCD.
- PV connecting, automatic activation of LiFePO4 battery pack.





Model	ED1500-EO	
Battery Data		
Battery Type	Lithium / Lead-Acid	
Nominal Battery Voltage (V)	24	
Max. Continuous Charging Current (A)	90	
Max. Charge Power (W)	2300	
Max. Discharge Power (W)	1500	
PV String Input Data	1300	
Max. Input Power (W)	2000	
Max. Input Voltage (V)	150	
MPPT Operating Voltage Range (V)	40-145	
Start-up Voltage (V)	40	
Nominal Input Voltage (V)	100	
PV Charging Current (A)	60	
Number of MPPT Trackers	1	
	1	
Number of Strings per MPPT AC Output Data	1	
•	1500	
Back-up Rated Power (W)	6.5	
Nominal Output Current (V)		
Nominal Output Voltage (V)	220 / 230 / 240	
Nominal Output Fregency (Hz)	50 / 60	
Output THDv (@ Linear Load)	<3%	
Conversion Efficiency	. 050/	
Efficiency	>86%	
MPPT Efficiency	99.9%	
Protection		
AC Over current Protection	Integrated	
AC Short Circuit Protection	Integrated	
AC Over voltage Protection	Integrated	
Remote Shutdown	Integrated	
Environmental / Ambient Conditions		
Operating Temperature Range (°C)	0 ~ 50	
Excess Temperature Behaviour	continuous power reduction (derating)	
Relative Humidity	0 to 95 %	
Installation Altitude above Sea Level	up to 2000 m above sea level	
Installation Location	Inside	
Cooling Method	Air Cooling	
Mechanical Data		
Dimensions (W*H*Dmm)	310x480x125mm	
Weight (kg)	16	
Protection Level	IP20	
Installation Type	Wall Installation with Wall Bracket	
Communications		
Display	LCD, WLAN + APP	
Monitoring Settings	Integrated data logger	
Communication with BMS	CAN	
Communication with Portal	Wif	
Other Data		
Topology	Transformer	
Reliability	Integrated	
Manufacturer's Warranty	1Year	



INVERTER



ED3000-EO / ED5000-EO

Off Grid Hybrid Inverter

PRODUCT FEATURES

- Suitable for customizing various PV Energy Storage System.
- Max. 6pcs in parallel (Only ED5000-EO).
- Automatic activation of LiFePO4 battery pack.
- Compatible with almost all 48V LiFePO4 battery pack.
- Multiple operating modes, off-grid and UPS, MPPT charger built-in.
- Integrated smart APP, can remotely diagnose and update.





Model	ED3000-EO	ED5000-EO	
Battery Data			
Battery Type	Lithium /	Lead-Acid	
Nominal Battery Voltage (V)	24	48	
Max. Continuous Charging Current (A)(A)	120	80	
Max. Charge Power (W)	3200	4500	
Max. Discharge Power (W)	3000	5000	
PV String Input Data			
Max. Input Power (W)	2000	5500	
Max. Input Voltage (V)	150	500	
MPPT Operating Voltage Range (V)	30-115	120-430	
Start-up Voltage (V)	30	150	
Nominal Input Voltage (V)	100	300	
Number of MPPT Trackers		1	
Number of Strings per MPPT	1		
AC Output Data			
Rated Power (W)	3000	5000	
Nominal Output Current (A)	13.6	21.7	
Nominal Output Voltage (V)	====	30 / 240	
Nominal Output Fregency (Hz)		/60	
Output THDv (@Linear Load)		3%	
Conversion Efficiency		570	
Max. Efficiency	03	.6%	
MPPT Efficiency		.9%	
Protection		.5%	
AC Over current Protection	Into	rrated	
AC Short Circuit Protection	Integrated		
AC Over voltage Protection	Integrated Integrated		
Remote Shutdown		•	
Environmental / Ambient Conditions	integ	grated	
,	0	50	
Operating Temperature Range (°C)	0 ~ 50		
Excess Temperature Behaviour	continuous power reduction (derating)		
Relative Humidity	0 to 95 % (climate class 4k6), non-condensing		
Installation Altitude above Sea Level	up to 2000 m above sea level		
Installation Location	Inside		
Cooling Method	Air Co	ooling	
Mechanical Data			
Dimensions (W \times H \times D mm)	300x485x120	300x485x120	
Weight (kg)	9±0.5	9.5±0.5	
Protection Level	IP20		
Installation Type	Wall Installation	with Wall Bracket	
Communications			
Display	LCD, WLAN + APP		
Monitoring Settings	Integrated data logger		
Communication with BMS	CAN		
Communication with Portal	Wif		
Other Data			
Topology	Transformerless		
Reliability	Integrated		
Manufacturer's Warranty	2Years		



Complete Solutions For ESS

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