



ED3600 / ED4600 / ED5000
On / Off Grid Hybrid Inverter

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



Compatible with almost all 48V LiFePO4 battery pack and lead-acid battery



Frequency droop control, Max. 6pcs parallel. DC couple and AC couple to retrofit existing solar system

Technical Specification

Model	ED3600	ED4600	ED5000
Battery Input Data			
Battery Type	Lithium / Lead-Acid	Lithium / Lead-Acid	Lithium / Lead-Acid
Nominal Battery Voltage (V)	51.2	51.2	51.2
Battery Voltage Range (V)	41.6 ~ 58.5	41.6~58.5	41.6~ 58.5
Max. Continuous Charging Current (A)	80	95	95
Max. Continuous Discharging Current (A)	85	100	100
Max. Charge Power (W)	3600	4600	5000
Max. Discharge Power (W)	3600	4600	5000
PV String Input Data			
Max. Input Power(W)	5200	6600	7000
Max. Input Voltage (V)	500	500	500
MPPT Operating Voltage Range (V)	120-430	120-430	120-430
Start-up Voltage (V)	150	150	150
Nominal Input Voltage (V)	360	360	360
Max. Input Current per MPPT(A)	15	15	15
Max. Short Circuit Current per MPPT (A)	18.9	18.9	18.9
Number of MPPT Trackers	2	2	2
Number of Strings per MPPT	1	1	1
AC Output Data (On-grid)			
Rated Power Output to Utility Grid (W)	3600	4600	5000
Max. Apparent Power Output to Utility Grid (VA)	3960	4600	5500
Max. Apparent Power from Utility Grid (VA)	3960	4600	5500
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60
Max. AC Current Output to Utility Grid (A)	17.2	20.0	23.9
Max. AC Current From Utility Grid (A)	17.2	20.0	23.9
Type of Infeed	Single-phase	Single-phase	Single-phase
Max. Total Harmonic Distortion	<3%	<3%	<3%
Power Factor	~0.99 (Adjustable from 0.8 leading to 0.8 lagging)		
Switch Time	<10ms	<10ms	<10ms
AC Output Data (Back-up)			
Back-up Rated Power(W)	3600	4500	4500
Max. Output Apparent Power (VA)	3600	4500	4500
Max. Output Current (A)	15.6	20	20
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Output THDv(@Linear Load)	<3%	<3%	<3%
Conversion Efficiency			
Max. Efficiency	97.8%	97.8%	97.8%
EU Efficiency	97%	97%	97%
Max. Battery to AC Efficiency	95%	95%	95%
MPPT Efficiency	99.9%	99.9%	99.9%
Environmental / Ambient Conditions			
Operating Temperature Range (°C)	-25~+60	-25~+60	-25~+60
Excess Temperature Behaviour	Continuous power reduction (derating)		
Relative Humidity	0 to 95 %, non-condensing		
Installation Altitude above Sea Level	up to 2000 m above sea level		
Installation Location	Inside & Outside	Inside & Outside	Inside & Outside
Cooling Method	Natural Cooling	Natural Cooling	Natural Cooling
Mechanical Data			
Dimensions (W X H X D mm)	350x580x230	350x580x230	350x580x230
Weight (kg)	25±0.5	25±0.5	25±0.5
IP Code (in accordance with IEC 60529)	IP65		
Installation Type	Wall Installation Wall mounted		
Communications			
Communication with BMS	can	can	can
Communication with Meter	RS485	RS485	RS485
Communication with Porta	WiFi	WiFi	WiFi
Display	LED, WiFi+APP	LED, WiFi+APP	LED, WiFi+APP
Monitoring Settings	Integrated data logger		
Other Data			
Topology	Transformer	Transformer	Transformer
Self-consumption at Night (W)	<10	<10	<10
Protection	PV Insulation Resistance Detection, Residual Current Monitoring, Antiislanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, AC Overvoltage Protection, DC Switch Remote Shutdown		
Reliability			
Manufacturer's Warranty	5 Years	5 Years	5 Years