

Specifications

Table 1 Line Mode Specifications

INVERTER MODEL	ED3000-EO	ED5000-EO
Input Voltage Waveform	Sinusoidal (utility grid or generator)	
Nominal Input Voltage	230Vac	
Low Loss Voltage	185Vac (UPS); 90Vac (Appliances)	
Low Loss Return Voltage	185ac+10V (UPS);90+10V (Appliances)	
High Loss Voltage	264Vac (UPS); 280Vac (Appliances)	
High Loss Return Voltage	264ac-10V (UPS);280-10V (Appliances)	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
Low Loss Frequency	40±1 Hz	
Low Loss Return Frequency	42±1 Hz	
High Loss Frequency	70±1 Hz	
High Loss Return Frequency	65±1 Hz	
Output Short Circuit Protection	Circuit Breaker	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical, 20ms Max@ Single <30ms @ Parallel	
Output power derating: The output power will be derated when AC input voltage drops to 170V.		

Table 2 Inverter Mode Specifications

INVERTER MODEL	ED3000-EO	ED5000-EO
Rated Output Power	3KVA/3KW	5KVA/5KW
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	230Vac±3%	
Output Frequency	50Hz/60Hz	
Nominal Output Current	13.1A	21.7A
Peak Efficiency	>93%	
Overload Protection	5s@>150% load; 10s@110%~150% load	
Surge Capacity	2* rated power for 0.2 seconds	2* rated power for 5 seconds
Nominal DC Input Voltage	24Vdc	48Vdc

Cold Start Voltage(Lead-Acid	24Vdc	48Vdc
Cold Start SOC(Li Mode)	Default 30%, Low DC Cut-off SOC +5%	
Low DC Warning Voltage (Lead-Acid Mode)	21.6Vdc	44.0Vdc
Low DC Warning Return Voltage (Lead-Acid Mode)	24.0Vdc	46.0Vdc
Low DC Cut-off Voltage (Lead-Acid Mode)	21.0Vdc	42.0Vdc
Low DC Warning SOC (Li Mode)	Low DC Cut-off SOC +5%	
Low DC Warning Return SOC (Li Mode)	Low DC Cut-off SOC +10%	
Low DC Cut-off SOC(Li Mode)	Default 20%, 5%~50% settable	
High DC Recovery Voltage	58Vdc (C.V. charging voltage)	
High DC Cut-off Voltage	32Vdc	64Vdc
No Load Power Consumption	<50W	<60W

Table 3 Charging Mode Specifications

Utility Charging Mode		
INVERTER MODEL	ED3000-EO	ED5000-EO
Charging Algorithm	3-Step	
Max. AC Charging Current	60Amp(@VI/P=230Vac)	80Amp(@VI/P=230Vac)
Bulk Charging Voltage	Flooded Battery	28.2Vdc
	AGM / Gel Battery	28.2Vdc
Floating Charging Voltage	27.8Vdc	58Vdc
Charging Curve		
MPPT Solar Charging Mode		
Max. PV Array Power	4000W	5500W

Max. PV Input Current	20A	18A
Start-up Voltage	150Vdc±10Vdc	
PV Array MPPT Voltage Range	120Vdc~430Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max. PV Charging Current	50A	80A
Max. Charging Current (AC Charger Plus Solar Charger)	120A	80A

Table 4 General Specifications

INVERTER MODEL	ED3000-EO	ED5000-EO
Operating Temperature Range	0°C ~40 °C	
Storage temperature	-15°C~ 60 °C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Altitude	<2000m	
Dimension(D*W*H)mm	485 x 300 x 120	
Net Weight, kg	9.5	