

EDO DATA SHEET

EDO. RESIDENTIAL HYBRID STORAGE UNIT

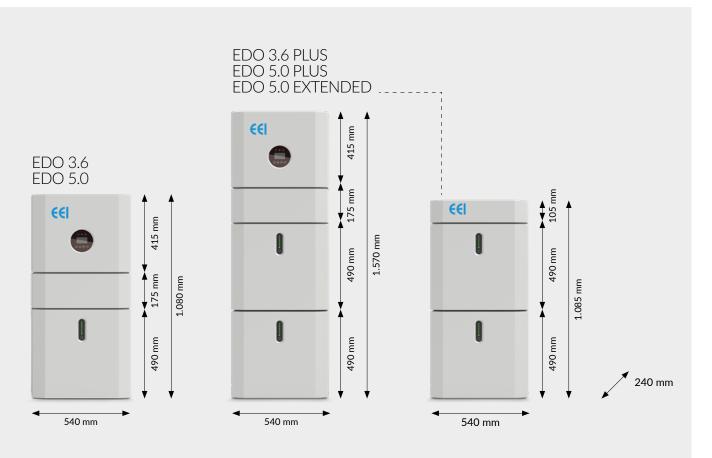
GENERAL TECHNICAL FEATURES

Output frequency range 50 / 60Hz/±5Hz), (adjustable) Rated Input Current 31A Max. Current from Utility Grid 32A Max. Apparent Power from Utility Grid 3680W Max. Power Output to Utility Grid 3680W Max. Current Output to Utility Grid 16A 21.7A AC Output Connection L+N+PE, Transformerless Power Factor (cos Φ) (0.9 leading - 0.9 lagging), (adjustable) THDi <3% Power grid disconnection Bipolar miniature circuit breaker (40A/pole) AC OUTPUT - BACKUP Bipolar miniature circuit breaker (40A/pole) Rated Output Voltage 230 (Fluctuation range±2%) Rated Output Voltage 230 (Fluctuation range±0.2%) Rated Output Prequency 50/60Hz (Fluctuation range±0.2%) Rated Output Power 4000W 4600W Max. Output Apparent Power 3680VA 5000VA THDV <2% (Linear load) Automatic Switch Time <20ms OverLoad 110% 10sec Off-line AC disconnection Bipolar miniature circuit breaker (25A/pole) SOLAR DC INPUT 4800W	utput power cage range	===	. = =
Output voltage range 150V ~280V Output frequency range 50 / 60Hz(±5Hz), (adjustable) Rated Input Current 31A Max. Current from Utility Grid 32A Max. Apparent Power from Utility Grid 3680W 4999W Max. Power Output to Utility Grid 16A 21.7A AC Output Connection L+N+PE, Transformerless Power Factor (cos Ф) (0.9 leading - 0.9 lagging), (adjustable) 7 3% 3% Power grid disconnection Bipolar miniature circuit breaker (40A/pole) AC OUTPUT - BACKUP Bipolar miniature circuit breaker (40A/pole) Act OUTPUT - BACKUP 230 (Fluctuation range±2%) Rated Output Frequency 50/60Hz (Fluctuation range±2%) Rated Output Frequency 50/60Hz (Fluctuation range±2%) Rated Output Frequency 30/60Hz (Fluctuation range±2%) Rated Output Power 4000W 4000W Max. Output Apparent Power 3680VA 5000WA THD <2% (Linear load)	age range	===	. = =
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AC Output Connection L+N+PE, Transformerless Power Factor (cos Φ) (0.9 leading - 0.9 lagging), (adjustable) THDi <3%	Output to Utility Grid	3680W	4999W
Power Factor (cos Φ) (0.9 leading - 0.9 lagging), (adjustable) THDi <3% Power grid disconnection Bipolar miniature circuit breaker (40A/pole) AC OUTPUT - BACKUP Sipolar miniature circuit breaker (40A/pole) Rated Output Voltage 230 (Fluctuation range±2%) Rated Output Frequency 50/60Hz (Fluctuation range±0.2%) Rated Output Power 4000W 4600W Max. Output Apparent Power 3680VA 5000VA THDV <2% (Linear load) Automatic Switch Time <20ms OverLoad 110% 10sec Off-line AC disconnection Bipolar miniature circuit breaker (25A/pole) SOLAR DC INPUT Max. PV Input power 4800W 6500W Max. PV input voltage 580V MPPT Range 580V MPPT Range 120V - 550V Rated Input Voltage 400V MPPT Range 2 400V MPPT Range at full load 184-550V 230-550 2 400V MPPT Range 2 400V MPPT Range 400V MPPT Range 13A*2 1 1 2	nt Output to Utility Grid	16A	21.7A
THDi <3% Power grid disconnection Bipolar miniature circuit breaker (40A/pole) AC OUTPUT - BACKUP Sol/60Hz Rated Output Voltage 230 (Fluctuation range±0.2%) Rated Output Frequency 50/60Hz (Fluctuation range±0.2%) Rated Output Frequency 13A 20A Rated Output Power 4000W 4600W Max. Output Apparent Power 3680VA 5000VA THDV <2% (Linear load) Automatic Switch Time <20ms OverLoad 110% 10sec Off-line AC disconnection Bipolar miniature circuit breaker (25A/pole) SOLAR DC INPUT 4800W 6500W Max. PV Input power 4800W 6500W Max. PV Input power 4800W 6500W Max. PV Input Voltage 120V ~550V 230~550 Number of MPPT 2 2 Max. PV Input Current 13A*2 2 Isc PV 16A*2 3 GENERAL SPECIFICATION 39 3 Omnersioni (W×H×D)mm 54	Connection	L+N+PE, Trai	nsformerless
Power grid disconnection Bipolar miniature circuit breaker (40A/pole) AC OUTPUT - BACKUP Rated Output Voltage 230 (Fluctuation range±2%) Rated Output Frequency 50/60Hz (Fluctuation range±0.2%) Rated Output Current 13A 20A Rated Output Power 4000W 4600W Max. Output Apparent Power 3680VA 5000VA THDV <2% (Linear load)	or (cos Φ)		
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THDv <2% (Linear load)	ut Power	4000W	4600W
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OverLoad 110% 10sec Off-line AC disconnection Bipolar miniature circuit breaker (25A/pole) SOLAR DC INPUT Max. PV Input power 4800W 6500W Max. PV input voltage 580V MPPT Range 120V ~550V Rated Input Voltage 400V MPPT Range at full load 184~550V 230~550 Number of MPPT 2 2 Max. PV Input Current 13A*2 15C PV GENERAL SPECIFICATION Dimensioni (W×H×D)mm 540*590*240 Weight (Kg) 39 Ambient Temperature Range °C -20 ~+60 (Rated Power@45) Relative Humidy 0~95% (NO CONDENSATION) Protection Degree IP65		<2% (Lin	ear load)
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Relative Humidy 0~95% (NO CONDENSATION) Protection Degree IP65			
Protection Degree IP65	,		
	•	·	
Topology High Frequency Isolation	Degree		
		High Frequency Isolation	
·		Natural Convection	
Noise Emission [dB] <25	ion [dB]	<25	
Display LCD/APP			
Communication Interface RS485/CAN2.0/WIFI	ition Interface		
Altitudine ≤2000m		≤2000m	
Overvoltage Category II(DC SIDE), III(AC SIDE)	e Category	II(DC SIDE), III(AC SIDE)	
Max. Efficiency (from battery) 94.0%	ncy (from battery)		
Max. Efficiency (from PV) 97.6%	ncy (from PV)	97.6%	
Euro Efficiency 97.0%	• •		
MPPT Efficiency 99.5%	,		
Short Circuit Protection, AC Leakage Fault Protection, Groun	,	Short Circuit Protection, AC Leakage Fault Protection, Grounding Fault Protection, Anti-islanding Protection, Overload Protection Surge Protectio	
STANDARDS AND SAFETY	DS AND SAFETY		
C. 1 D 1 - 1		AS/NZS 4777.2, VDE-AR-N4105, VDE0126-1-1, CEI 0-21	
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Safety Regulation AS/NZS 4///.2, VDE-AR-N4105, VDE0126-1-1, CEI (Safety Regulation IEC/EN 62109-1&2, IEC62040-1 EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN	ılation	IEC/EN 62109-1	&2, IEC62040-1

E-CASA 5.1 BU

BATTERY PACK SPECIFICATION	
Rated Battery Voltage	51.2V
Battery Voltage Range	40~60V
Max. Discharging Current	80A
Max. Charging Current	50A
Battery Switch	Bipolar DC Switch (125A/Pole)
Energy Capacity	5.12kWh
Battery Type	LFP (LiFePO4)
Depth of Discharge (DoD)	90%
Rated Voltage	51.2V
Operating Voltage Range	44.8~57.6V
Internal Resistance	≤ 20 mΩ
Number of Cycles	10.000 cycles
Operating Temperature Range	0 ~+50 (charge)/-10 ~+50 (discharge)
Storage Temperature Range	-30 ~+60
Hmidity	0% ~ 90%
Modules Connection	max. 4 batteries in parallel (each module 5.12 kWh)
Power Consumption	<2 W
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication	CAN e RS-485
Ventilation Type	active and passive
Weight (Kg)	59
Dimension (W×H×D)mm	540*490*240
IP Protection	IP65
Warranty	5 years on product, 10 years on performance
Safety (Cell)	IEC 62619 UL 1973 UN 38.3

The data contained in this data sheet may be subject to changes without notice.





DESIGNED FOR MORE THAN 10 YEARS OF OPERATION

EEI guarantees 10.000 cycles of batteries use, all products have 5 years of product warranty.



MAINTENANCE

EEI remotely supports its customers by connecting to its products via network and with the timely dispatch of spare parts from warehouse located in Italy.



SERVICE CENTER

EEI has its Headquarter in Italy and allows a direct support to all its customers directly or through its own partners.

www.eei.it

EEI

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