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EEI

ITALIAN
POWER
TECHNOLOGY



EDO
DATA
SHEET

EDO. RESIDENTIAL HYBRID STORAGE UNIT

GENERAL TECHNICAL FEATURES

	E-CASA 3.6 HU	E-CASA 5.0 HU
AC OUTPUT PARAMETER		
Rated AC output power	230Vac	
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	7360VA	
Max. Power Output to Utility Grid	3680W	4999W
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		
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)	
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	120V ~550V	
Rated Input Voltage	400V	
MPPT Range at full load	184~550V	230~550V
Number of MPPT	2	
Max. PV Input Current	13A*2	
Isc PV	16A*2	
GENERAL SPECIFICATION		
Dimensioni (W×H×D)mm	540*590*240	
Weight (Kg)	39	
Ambient Temperature Range °C	-20 ~+60 (Rated Power@45)	
Relative Humidity	0~95% (NO CONDENSATION)	
Protection Degree	IP65	
Topology	High Frequency Isolation	
Cooling	Natural Convection	
Noise Emission [dB]	<25	
Display	LCD/APP	
Communication Interface	RS485/CAN2.0/WIFI	
Altitudine	≤2000m	
Overvoltage Category	II(DC SIDE), III(AC SIDE)	
Max. Efficiency (from battery)	94.0%	
Max. Efficiency (from PV)	97.6%	
Euro Efficiency	97.0%	
MPPT Efficiency	99.5%	
Protection Function	Short Circuit Protection, AC Leakage Fault Protection, Grounding Fault Protection, Anti-islanding Protection, Overload Protection Surge Protection DC Polarity Protection	
STANDARDS AND SAFETY		
Grid Regulation	AS/NZS 4777.2, VDE-AR-N4105, VDE0126-1-1, CEI 0-21	
Safety Regulation	IEC/EN 62109-1&2, IEC62040-1	
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29	

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

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



MAINTENANCE

EEl 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

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

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