



E-BESS

HIGH-EFFICIENCY MOBILE POWER SYSTEM
FOR ON-GRID AND OFF-GRID APPLICATIONS.
ZERO NOISE - ZERO EMISSIONS.

MOBILE BATTERY ENERGY STORAGE SYSTEM

Power range

15/24/30 kVA - 20/35 kWh

50/60Hz - 400 V



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E-BESS

BATTERY ENERGY STORAGE SYSTEM





POWER STABILITY

E-BESS units power on-grid and off-grid electrical systems, ensuring a constant supply by balancing demand and storing excess energy.



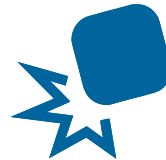
FLEXIBLE CONFIGURATION

E-BESS units can be connected in parallel to scale power and seamlessly integrated with renewable energy sources, ensuring adaptability for various applications on/off grid.



ENVIRONMENT FRIENDLY

Power with zero emissions, no noise, and renewable energy compatibility. E-BESS units offer clean, silent operation—ideal for sustainable and low-impact applications.



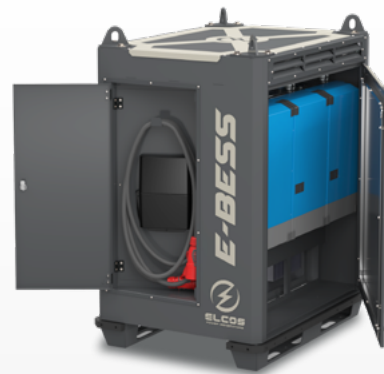
RUGGED AND COMPACT DESIGN

Designed to be ideal for construction sites, thanks to the steel frame, protective bumpers, four lifting hooks is ideal for demanding construction environments.

E-BESS

BATTERY ENERGY STORAGE SYSTEM

KEY FEATURES



LOCKS ON ALL
ACCESS DOORS

INTEGRATED
LIFTING POINTS

ON BOARD
CONTROL PANEL
WITH TOUCH
GRAPHIC DISPLAY

POWDER COATED
GALVANIZED
PANELS

BATTERIES
HOUSING

CABLE
HOUSING

STURDY STEEL
BASE FRAME

WIDE OPENING DOORS
FOR INSPECTION

ANTI-TURNING
FORKLIFT AND
TRANSPALLET
TUNNELS



OPTIONALS



Type 2 vehicle charging socket



Photovoltaic charging INPUT



Battery heaters for -20°C



Supplementary battery



Filter and protection kit IP54























Charging cables



Diagnostics software

Power range
15/24/30 kWh - 20/35 kWh
 50/60Hz - 400 V

KEY FEATURES		ECO MODE FOR BATTERY CONSUMPTION MANAGEMENT
		EMERGENCY FUNCTION IN UPS MODE ON MAINS LINE
		PEAK SHAVING FUNCTION IN PARALLEL WITH THE GENERATOR
		TYPE 2 ELECTRIC VEHICLE CHARGING SOCKET (OPTIONAL)
		PHOTOVOLTAIC SYSTEM MANAGEMENT FOR BATTERY CHARGING (OPTIONAL)
	50/60	FREQUENCY AND VOLTAGE CONVERTER FROM 50 TO 60 HZ (SINGLE-PHASE TO THREE-PHASE)
		GEOLOCATION AND CONTROL OF PARAMETERS
		REMOTE FLEET MANAGEMENT
		COOLING AND HEATING (OPTIONAL) SYSTEM INCLUDED
ENVIRONMENT		SMART CHARGING MANAGEMENT REDUCES FUEL CONSUMPTION
		ZERO EMISSION - CARBON NEUTRAL
		ZERO NOISE EMISSIONS
		INTEGRABLE WITH RENEWABLE ENERGY SOURCES
CONTROL SYSTEMS		PARALLELABLE TO INCREASE AVAILABLE POWER
		REMOTE MONITORING SYSTEM
		REAL TIME BATTERY MONITORING
		LOAD MONITORING
SERVICES		ON SITE TRAINING - Well trained multi-language engineers
		MINIMAL MAINTENANCE REQUIRED
		REMOTE MONITORING
		SPARE PARTS



BATTERY ENERGY STORAGE SYSTEM

Three-phase Model

E-BESS-15-20-3P

E-BESS-15-35-3P

E-BESS-24-20-3P

E-BESS-24-35-3P

E-BESS-30-35-3P

AC OUTPUT (DISCHARGING) CAN BE TAKEN FROM A 1P+N+T 63A SOCKET

Continuous power at 25°C	kVA	15	15	24	24	30
Continuous power at 25°C	kW	12	12	19,2	19,2	24
Continuous power at 40°C	kW	9	9	12	12	18
Maximum peak power*	kW	27	27	45	45	54
Output frequency - settable	Hz	50/60				
Output voltage (+/- 2%)	V	400				
Self-consumption without load**	W	56	56	90	90	112
Self-consumption in ECO mode***	W	8	8	11	11	14
Maximum discharge rate	%	90				

* Max 1 sec, ** Maximum consumption, *** Minimum consumption

AC INPUT (CHARGING)

Input voltage +/- 15%	V	400				
Max charging power at 3F 400V	kW	11,5	11,5	18	18	18
Charging times in minutes at 25°C (+/- 5 min)	Minutes	120	211	120	130	130
AC connection socket	Type	32A 5 poles	32A 5 poles	63A 5 poles	63A 5 poles	63A 5 poles
THDI	%	3%				

BATTERY

Max storage capacity	kWh	20	35	20	35	35
Voltage	V	51,2				
Type	-	LiFePO				
DoD	%	90				
Cycles guaranteed at 25°C with 70% residual capacity	n	6000				
Life expectancy	Years	10				
Battery manufacturing country	-	Italy				
Total battery weight	Kg	191	333	191	333	333
Quantity of 5,12 kWh modules	n	4	7	4	7	7

WEIGHTS AND DIMENSIONS

Weight	Kg	683	827	714	861	883
Dimensions (L x W x H)	mm	900x1210x1519				

ENVIRONMENTAL CONDITIONS

Standard protection level	IP	43
Protection level with filters (optional)	IP	54
Relative humidity	%	0-99
Discharge temperature	°C	-10/+45
Charging temperature	°C	0/+50
Temperature in discharge with heater (optional)	°C	-20/+45
Cooling - forced	Type	Variable Speed Fans
Altitude *	m	4000

* Over 2000 m derating 20%

Power range
15/24/30 kWh - 20/35 kWh
50/60Hz - 400 V

Single-phase Model

E-BESS-15-20-1P E-BESS-15-35-1P E-BESS-24-20-1P E-BESS-24-35-1P

AC OUTPUT (DISCHARGING) CAN BE TAKEN FROM A 1P+N+T 63A SOCKET

Continuous power at 25°C	kVA	15	15	24	24
Continuous power at 25°C	kW	12	12	19,2	19,2
Continuous power at 40°C	kW	9	9	12	12
Maximum peak power*	kW	27	27	45	45
Output frequency - settable	Hz	50/60			
Output voltage (+/- 2%)	V	230			
Self-consumption without load**	W	56	56	90	90
Self-consumption in ECO mode***	W	8	8	11	11
Maximum discharge rate	%	90			

* Max 1 sec, ** Maximum consumption, *** Minimum consumption

AC INPUT (CHARGING)

Input voltage +/- 15%	V	400			
Max charging power at 3F 400V	kW	10	11,5	10	18
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BATTERY

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Voltage	V	51,2			
Type	-	LiFePO			
DoD	%	90			
Cycles guaranteed at 25°C with 70% residual capacity	n	6000			
Life expectancy	Years	10			
Paese di produzione batteria	-	Italy			
Peso totale batteria	Kg	191	333	191	333
Quantity of 5,12 kWh modules	n	4	7	4	7

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Standard protection level	IP	43
Protection level with filters (optional)	IP	54
Relative humidity	%	0-99
Discharge temperature	°C	-10/+45
Charging temperature	°C	0/+50
Temperature in discharge with heater (optional)	°C	-20/+45
Cooling - forced	Type	Variable Speed Fans
Altitude *	m	4000

* Over 2000 m derating 20%



ELCOS
POWER GENERATORS

SINCE 1975 - 50 YEARS OF EXPERIENCE

ELCOS SRL

Strada Statale 234 Km 58.250

26023 Grumello Cremonese CR - Italy

tel +39 0372 72330 - fax +39 0372 7233220

PI 01084730199

info@elcos.net - elcos@pec.elcos.net

www.elcospowergenerators.com



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