



MOBILE & COMPACT UNINTERRUPTIBLE POWER SYSTEM (UPS)

ERMA ENERGY develops and proposes multi energy solutions in electrical supply thanks to its exclusive management system *emie*.

Green to Grid (G2G) is a silent hybrid portable generator on a trailer ready to use, incorporating batteries and photovoltaic panels.

Green to Grid (G2G) also integrates a flexfuel genset (diesel, biodiesel fand NATO fuels) starting automatically to generate electricity in case of high power requirement or battery recharge.

These three sources of energy are driven by our EMS emie in a rational way with the aim of optimising electricity production, adapting it to needs and saving costs.

ERMA ENERGY proposes two versions: Civil Premium and NATO, resistant for harsh conditions and efortless deployment.

Our system, with strenghtened frame, allows implementation within 5 minutes.



NEW TECHNOLOGY emie

ENERGY MANAGEMENT SYSTEM BY ERMA Ensures the automated management of energy sources among themselves.



SIMPLICITY

Plug and play system. Simple to use and connect. Plugs supplied.



CONTINUITY

Uninterruptible Power Systems. Maintains and stabilizes the power supply. Fast switchover: lower than 20ms.



OUIFT

No noise in Hybrid Mode. Reduced noise with genset fairing.



SAVING COSTS

OPEX Reduced (maintenance delayed). Reduction of fuel consumption. Reduction of supply risks.



CERTIFICATION

CE certifications according to directives : FMC 2014/30/UF and LOW VOLTAGE 2014/35/UE.



GREEN ENERGY

Priority given to solar energy. Excess of electricity stored in batteries. Reduction of CO2 emissions: up to 100%.



GREEN TO GRID CIVIL NATO



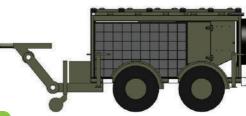












Up to 16.2kVA

SOLAR PANELS 2010Wp (STC)



STORAGE 17kWh



GENSET 9kVA





1080Wp (STC)

10kWh



6.5kVA

APPLICATIONS

ISOLATED LIVING AREAS - HOUSES, SHEEPFOLDS, SMALL BUSINESSES **ISOLATED SITES - TELECOM RELAY** BUILDING AND CIVIL ENGINEERING ACTIVITIES - CUSTOMS - CROSSING POINTS **EMERGENCY SERVICES** - NGO, CIVIL SECURITY **AGRICULTURAL IRRIGATION - EVENTS AND LIGHTING**

ISOLATING LIVING & WORKING AREA - OFFICE CONTAINER, CAMP, POWERING TOOLS SECURITY - LIGHTNING, WATCHING, GUARDHOUSE, FORWARD POST, CROSSING POINT **COMMUNICATION - ESTABLISHMENT & SUPERVISION, TELECOM RELAYS & ANTENNAS** (AND ALL CIVIL APPLICATIONS)



	TECHNICAL SPE	CIFICATIONS	CIVIL	NATO
GENERAL	TYPE		-	
	INCLUDED POWER SOURCES		HYBRID UNINTERRUPTIBLE POWER SYSTEMS GENSET - SOLAR PANELS - BATTERIES	
	ADDITIONAL POWER SOURCES		GRID - BACK-UP GENSET	
		HYBRID POWER	GENSET OR BATTERIES & SOLAR PANELS	
	MODE	FULL POWER	GENSET AND BATTERIES & SOLAR PANELS	
EN EN	CONTINUOUS FULL POWER - 25°C / 40°C		10,9kVA / 9,3kVA 16,2kVA / 14,2kVA	
	OPERATING TEMPERATURE RANGE		-20°C to +50°C	
	ENERGY MANAGEMENT SYSTEM		INTEGRATED	INTEGRATED - USER DEFINED MODE
Ш	HUMAN-MACHINE INTERFACE		OPTIONAL EQUIPMENT	DISPLAY - LAN ACCESS
INVERTER	TYPE		PURE SINUS - 230VAC SINGLE PHASE - 50Hz	
	CONTINUED HYBRID POWER - 25°C		5,0kVA 8,0kVA	
N N	CONTINUED HYBRID POWER - 40°C		4,3kVA	6,8kVA
	PEAK POWER 130%/150%/200%		30min / 5s / 0,5s	
ER	TYPE - MODE		BATTERY LIFE - BULK/ABSORPTION/FLOAT	
CHARGER	SYSTEM VOLTAGE		24VDC	48VDC
₹	CHARGE CURRENT		70A	110A
0	BATTERY TEMPERATURE & VOLTAGE SENSOR		YES	
	TY	PE	SEALED LEAD ACID	SEALED PURE LEAD ACID
ξ		DISPOSITION	2 BRANCHES OF 2 BLOCS	2 BRANCHES OF 4 BLOCS
BATTERY		TOTAL CAPACITY C10	400Ah	340Ah
	ENERGY	TOTAL	10kWh	17kWh
		AVAILABLE (CYCLING)	5kWh	10kWh
	CHARGE CONTROLER		MPPT	
		TYPE	60 CELLS - MONO - GLAS (COATED) / TEDLAR	60 CELLS - MONO - GLAS (COATED) / GLAS
4	SOLAR PANEL	QUANTITY	4	6
SOLAR		TOTAL POWER (STC)	1080Wp	2010Wp
Ñ	STRUCTURE	DEPLOYMENT	MANUAL	MANUAL & PNEUMATIC
		POSITION	2	SEVERAL
	MINI / MAXI		20°/30°	0° to 60°
GENSET	TYPE - VOLTAGE - FREQUENCY		3000rpm - 230VAC SINGLE PHASE - 50Hz	1500rpm - 230VAC SINGLE PHASE - 50Hz
	SOUND PRESSURE LEVEL		60dB (7m)	54dB (7m)
	POWER (<1000m)	ESP / PRP (20°C)	6,5kVA / 5,9kVA	9kVA / 8,2kVA
		ESP / PRP (40°C)	5,8kVA / 5,3kVA GAZOLE - BIODIESEL	8,1kVA / 7,4kVA
	FUEL CONSUMPTION / TANK		1,8L (75%) / 27L	(OPTIONS : F-34, F-35, F-44, F-54, F-63) 2,5L (75%) / 50L
Н			, , , , ,	
	LIGHTING	TYPE - TENSION	HALOGEN BULB - 12V	LED - 12V/24V
		CONNECTING	13P/12V (ISO 11446)	15P/24V (ISO 12098) - 13P/12V (ISO 11446)
TRAILER	D A A T I	DIALC	CALVANIZED CTEE	12P/24V (NATO) - STANDARD 7N 7S 24V
	MATERIALS COLORS		BLACK - GREEN - GREY	AND ALUMINIUM IR/NATO 24x5 - BLACK
	GROSS WEIGHT		850kg	2500kg
	OVERRUN DEVICE		STRAIGHT (350mm)	ADJUSTABLE (390mm to 1040mm)
	DRAWBAR		COUPLING HEAD	NATO EYE
	AXLE WITH BRAKES		1 (TORSION BAR)	2 (WITH SPRING AND SHOCK)
	WHEEL	TYRE TYPE - USE - Qty	175/70R13 - ROAD ONLY - 2	7,50R16C - ALL-TERRAIN (LEVEL 7) - 4
		OTHER	REPAIR KIT	SPARE WHEEL
	HxWxL - DRIVE MODE (m)		1,8 x 2,2 x 2,8	1,8 x 2,6 x 5
	H x W x L - PRODUCTION MODE (m)		2,0 x 2,2 x 3,0	1,8 x 3,8 x 5,0 (0°) - 3,8 x 2,6 x 5,0 (60°)
	FLOOR HEIGHT (m)		0,25	0,41
			REAL APPROVAL FOR ROAD USE & CE CERTIFICATION	
NO.	EU DIRECTIVE		2014/35/EU (Low Voltage) - 2014/30/EU (EMC) - 2006/42/EC (MACHINERY)	
Ę	STANDARDS		IEC 62040-1 & IEC62040-2 : UNINTERRUPTIBLE POWER SYSTEMS	
문			IEC 60950-1: INFORMATION TECHNOLOGY EQUIPMENT	
CERTIFICATION			IEC 60204-1 : SAFETY OF MACHINERY	
			NF C15-100 : LOW VOLTAGE ELECTRICAL INSTALLATIONS	
닏			UTE C15-712 : PHOTOVOLTAIC INSTALLATIONS	
끮	TRAILER AND STRUCTURE		12 MONTHS	24 MONTHS
Ž	GENSET		12 MONTHS (or 500h)	24 MONTHS (or 1000h)
-	BATTERIES CHARGED CHARGED		12 MONTHS	24 MONTHS
ARA		INIVEDTED CHARGES	4.2 NAONITHE	CONTONITUE
GUARANTEE	CHARGE CONTROLER	- INVERTER - CHARGER PANELS	12 MONTHS 12 MONTHS	60 MONTHS 60 MONTHS