






ECO POWER HYBRID SERIES

EPH 24/25/18

PRIME POWER		STORAGE CAPACITY
kVA	kW	kWh
24	19,2	25,9

ENVIRONMENTAL CONDITIONS	
Temperature	-20°C / 40°C
Altitude	1000 mslm
Humidity	60%

3~ 50Hz. 400V	
YANMAR	
EU STAGE 5	
65 dB(A) @ 7 mt	
385 lt	



The image is only for demonstration purposes

WEIGHT	DIMENSIONS		
kg	L [mm]	W [mm]	H [mm]
1500	2380	1180	1725

TECHNICAL DETAILS

ELECTRICAL DATA	Electrical system type	3F+N	~
	Power factor	0,8	φ
	Voltage	400	V
	Frequency	50	Hz
	PRP Ampere rating	34,6	A

ENGINE	Engine	YANMAR	
	Engine emissions standard	(REG. UE 2016/1628) EU STAGE 5	
	RPM governor type	Mechanical	
	Step load performance (ISO8528-5)	G2 @ ND G3 @ ND	
	RPM	1500	rpm
	Nr. Of cylinders	4	
	Bore x stroke	88 x 90	mm
	Displacement	2190	cc
	Aspiration	Natural	
	Cooling system	Water	
Engine net prime power	22,4 (16,7)	hp (kW)	

CONSUMPTION	Fuel type	Diesel	
	Consumption @ 75% load	4	lt/h
	Standard tank capacity	385	lt
	Autonomy @ 75% load	96,3	h

ALTERNATOR	Alternator	STAMFORD - MECC ALTE - LEROY SOMER	
	Type	Self excited, brushless	
	Number of poles	4	
	Insulation class	H	
	Temperature rise class	H	
	Voltage regulation	AVR	
Voltage precision	± 1	%	

GENERAL	Sound level (soundproof version)	65	dB(A) @ 7mt
	Exhaust pipe diameter	60	mm
	Electrical system voltage	12	V

TECHNICAL DETAILS

BATTERY	Battery technology	LiNMC	
	Control Technology	BMS	
	Battery pack capacity	500	Ah
	Nominal voltage of the battery pack	51,8	V
	Number of batteries	1	Q.ty

CHARGING TIME	Storage capacity	25,9	kWh
	Mains charging current	20	A

CHARGING TIME	20-90%	TBD	h
	20-100%	TBD	h

INVERTER	Type	VICTRON QUATTRO 48/8000	
	Quantity	3	
	Single power	8	kVA
	Parallel power	24	kVA

SOLAR BATTERY CHARGER	Type	VICTRON MPPT 250/70	
	Quantity	2	
	Single power	4	kW
	Installable quantity	2	
	Parallel power	8	kVA

CLIMATIC CONDITIONS	Recommended charging temperature range	-20°C / 40	°C
	Recommended discharging temperature range	-20°C / 60	°C
	Average battery charge capacity loss during storage	6%	per month

ELECTRIC PANEL

AUTOMATIC WITH UPS FUNCTION



Control unit with multimeter	Ekran GX & IntelliGen500
Protection rating of the electrical panel enclosure	IP 44
ON-OFF switch control panel	ON/OFF switch bistable with key
Emergency pushbutton	Ø40 mm with twist-release mechanism Compliant with standards: EN/IEC 60947-5-5 EN/ISO13850 IEC 60204-1 2006/42/EC
Battery charge maintainer	12V - 5A
Electrical distribution	Schuko Socket IP44 CEE IP67 Sockets: n.1 16A 3P + n.1 16A 4P + n.1 16A 5P + n.1 32A 4P + n.1 32 5P
Circuit breaker	32A circuit breaker type with AC residual current protection relay
Main protection alarms	Min-Max V and Hz. LOP. HWT. Battery charger alternator failure. Low fuel level

CONTROL UNITS

HYBRID SYSTEM
Victron Ekran GX



Central monitoring and control device for Victron energy systems
 Real-time monitoring of inverters/chargers, charge controllers, batteries, and energy meters
 Advanced management of off-grid, grid-connected, and hybrid systems
 Complete visualization of energy flows (grid, solar PV, batteries, loads)
 Battery status monitoring: voltage, current, SOC, power, and data history
 User interface via integrated high-resolution touchscreen display
 Remote access and cloud monitoring via Victron VRM platform
 Support for MODBUS TCP/RTU communications
 Integrated ports: Ethernet, USB, CAN bus, VE.Direct, VE.Can, VE.Bus
 System data recording and advanced diagnostics

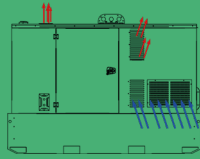
GENERAL
Comap IntelliGen 500








Automatic control of single or multiple generators, operating in island mode or in parallel with the grid
 Manual, automatic, and remote start of the generating set
 Complete protection of the generating set
 Integrated multimeter: V (L1-L2-L3-N), A (L1-L2-L3), Hz, kW, kVA, kVAr, cosphi, battery voltage, hour meter
 Back-lit graphic LCD display
 Customizable PLC programming
 Support for MODBUS and SNMP communications
 Integrated communication ports: USB, RS-485, CAN bus

SOUNDPROOF AND WEATHERPROOF CANOPY



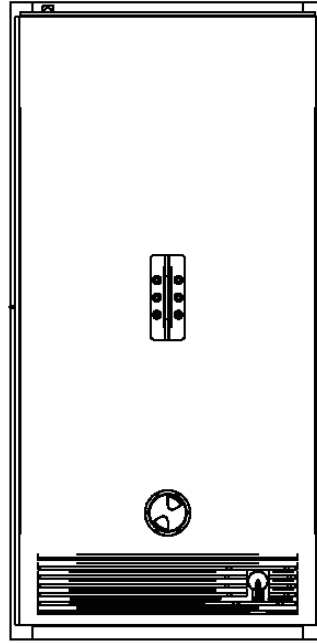
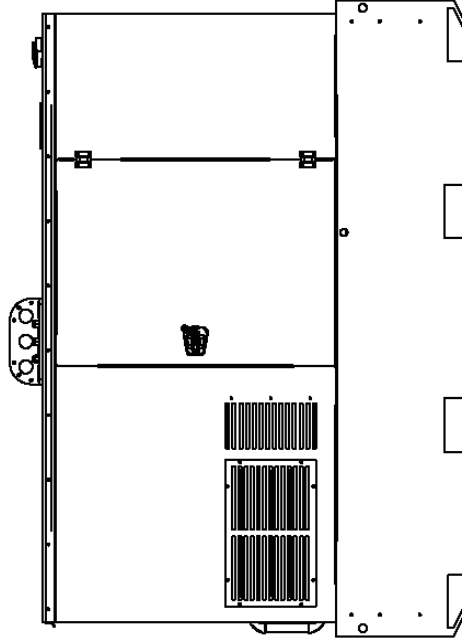
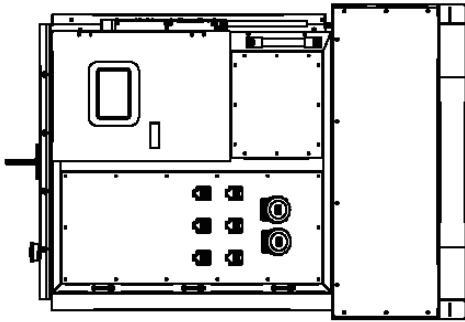
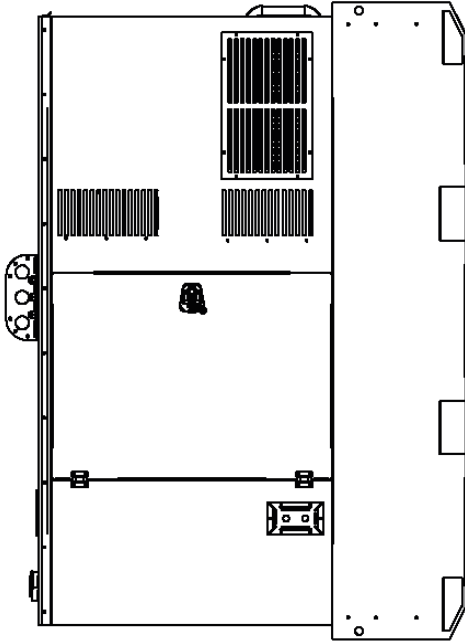
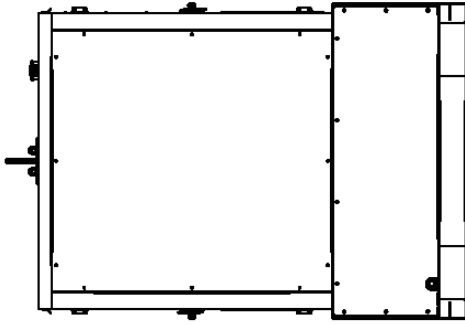
Self-supporting frame material	Carbon steel sheet, welded, minimum thickness 2 mm
Soundproof canopy material	Galvanized steel sheet, electro welded, thickness between 1,5 and 4 mm
Painting	Outdoor polyester powder coating RAL 5024 textured
In-built fuel tank	385 lt Type removable with catch basin
Sound-absorbing coating material	Polyurethane finished with water-repellent, and anti-oil fabric. Fire resistance EN13501-1 class B
Muffler	Inside the canopy. Residential type, noise reduction of 40 dB(A)
Access openings	n.2 doors with key lock
Electric Panel	Short side position. Dedicated protective door with padlockable lock and porthole Sockets kit
Fresh air intake and hot air expulsion	
Lifting system	Central lifting hook
Support feet	Sled-shaped baseframe with holes for ground fastening

HYBRID SYSTEM DATA

 	Fuel saved	1.620 l
	CO2 saved	4.4225 kg
	Machine Energy Out	10.598 kWh
	System Running Hours	2500 h
	Std EDG Equiv Fuel Used	3.416 l
	Genset kWh	7.042 kWh
	Running Hours	1.092 h
	Engine Fuel Used	1.796 l
	CO2 by genset	4.754 kg
<p>Close MCB Open GCB   </p>		

OPTIONS

INSTALLED AS A STANDARD	OTHER OPTIONS
385 lt removable tank with catch basin	Automatic panel with 32A integrated automatic transfer switch (ATS-I) and battery charger
Three-way valve for fuel tank selection	Engine preheat heater for starting in harsh climate conditions [750W]
Quick and safe coupling kit for connecting to an external fuel tank	Engine oil pressure and cooling water temperature measuring instruments
Electric fuel float to check the fuel level from the control unit	Bigger tank
Residual current circuit breaker	Further colors
Master battery switch	
non-rotating central lifting hook	



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AI TERMINI DI LEGGE, AI SENSI DEGLI ARTICOLI 19 E 99 DELLA LEGGE 633 DEL 22/02/1947 CI RISERVIAMO LA PROPRIETÀ DI QUESTO DISEGNO CON DIVIETO DI RIPRODURRE, E DI RENDERSI NOTO, ANCHE IN PARTE, SENZA NOSTRA AUTORIZZAZIONE SCRITTA.

DESCRIZIONE	SE NON SPECIFICATO: QUOTE IN MILLIMETRI FINITURA SUPERFICIE: TOLLERANZE NON INDICATE: EN22768-mk	DISEGNATORE	REVISIONE
ECO POWER_IBRIDO_TRIFASE		S.Oliva	01
DESCRIZIONE REV.			
CODICE DISEGNO	EPH24/25/13-T		
PESO Kg	1422,55		
MATERIALE			
SPESSORE mm			
FOGLIO 3 DI 3	SCALA:1:20		A3
DATA	06/06/2025		
DATA CREAZIONE			
COLORE			