

VGP88M 50Hz POWERED BY PERKINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 400/230V-50Hz-3Phase

Model	VGP88M	
Power(ESP)	kVA/kw	88/70
Power(PRP)	kVA/kw	80/64
Starter Voltage	V	12
Rated Current	A	127
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Litre/hour	18.7
Fuel Tank Capacity	Litre	Open Type : 141L / Silent Type: 315L
Noise level	dB(A)@7m	Silent Type: 76±2

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	1900mm*815mm*1295mm	1043 Kg
Silent Type	3146mm*1056mm*1850mm	1529 Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: MECC ALTE, ECP34 1S4A

Diesel Engine: PERKINS , 1104A-44TG2

Standby Power: Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime Power: Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine).



ENGINE Specification

Manufacturer: PERKINS

Model	1104A-44TG2
Engine speed Rated	1500 RPM
Cylinder /Arrangement	4/ L
Displacement	4.4L
Bore and Stroke	105 mm × 127
Compression ratio	17.25 : 1
Max. stand by power at rated RPM	80.7KW
Frequency regulation , steady state	≤0.75%
Governor : type	Electrical

Exhaust System

Exhaust gas flow	13.3L/min
Exhaust temperature	555°C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	18.7L / h
Fuel consumption75% (of the Prime Power)	14.0 L / h
Fuel consumption50% (of the Prime Power)	9.7L / h
Fuel consumption25% (of the Prime Power)	5.2 L / h

Oil system

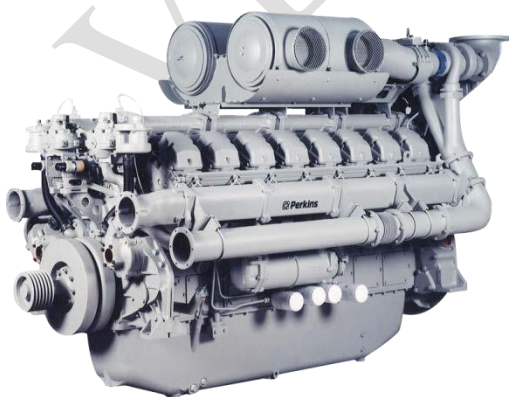
Total oil capacity w/filters	8.0 L
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Air intake

Engine air flow	5.14L/min
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Coolant System

Radiator & engine capacity	13.0 L
Max water temperature	110°C
Thermostat	82-93°C



- ☐ Perkins engines with fast and reliable cold boost.
- ☐ Advanced technology on burning Combustion optimization, low fuel consumption and low noise, emission meets German TALuft standard.
- ☐ Reasonable coupling creates best compounding function, provides reliable and high-performance power products.
- ☐ Integrated structure of generator with fuel tank and base frame and internal high-efficiency anti-vibration.

Note: All data sheets are for reference only and subject to change without prior notice.



ALTERNATOR Specification

Manufacturer: MECC-ALTE

Type	ECP34 1S4A
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	AREP
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	DSR
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

FEATURES

- Leading reality in the national scene, fortified by sixty years of experience in the electro mechanical field, MeccAlte is today at its height in the world production of synchronous alternators.
- Committed daily to research, development and updating activities, MeccAlte is a testimony to constant improvement in all areas from technology, organisation and quality with its ISO 9001 certification.

STANDARDS

- Marine certifying institutions
Korean Register of Shipping, American Bureau of Shipping, China Classification Society, Germanischer Lloyd, Nippon Kaiji Kyokai, Russian Maritime Register of Shipping.
- Product certifying institutions
CSA International
Underwriters Laboratories
Istituto Marchio di Qualità



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Control Panel

Model: AMF 20

AUTOMATIC MAINS FAILURE CONTROLLER

InteliLite® controllers are equipped with a powerful graphic display. Icons, symbols and bar graphs for intuitive operation together with high functionality set new standards in gen-set control.

Special low temperature (IL-AMF 20-LT or IL-AMF 25-LT) version is also available, allowing the display to work up to -300C.



KEY FEATURES

- ☐ Support of engines equipped with Electronic Control Unit (J1939 interface)
- ☐ Comprehensive diagnostic messages; SPN/FMI codes; KWP2000 support
- ☐ Automatic or manual start/stop of the gen-set
- ☐ Push buttons for simple control, lamp test
- ☐ Graphic back-lit LCD display 128x64 pixels
- ☐ 6 LED indicators
- ☐ Parameters adjustable via keyboard or PC
- ☐ Mains measurements (50/60 Hz): U1-U3, Hz
- ☐ Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh
- ☐ Selectable protections alarm/shutdown
- ☐ 3 phase Generator protections
 - Over-/under voltage
 - Over-/under frequency
 - Current/voltage asymmetry
 - Overcurrent/overload
- ☐ 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- ☐ Configurable analog inputs
- ☐ Battery voltage, engine speed (pick-up) measurement
- ☐ Configurable programmable binary inputs and outputs
- ☐ Warm-up and cooling functions
- ☐ Generator C.B. and Mains C.B. control with feedback and return timer
- ☐ RS232 interface (AT-LINK CONV cable is necessary for IL-AMF 20)
- ☐ Modem communication support (IL-AMF 25 only)
- ☐ Dimensions 180x120 mm (front panel)
- ☐ Sealed to IP65

KEY BENEFITS

- ☐ Less wiring and components
- ☐ Integrated solution
- ☐ Less engineering and programming
- ☐ Perfect price/performance ratio