

**METCL P88GFS Generator Set**  
**Prime 64kW (80kVA) 50Hz 3-P**

Powered by  **Perkins**



Image shown may not reflect actual configuration.

**METCL GENSET DECIBELLEVES**

Revolving field, self-ventilated weatherproof Normal conversation allows lower operating noise levels than competitive designs. METCL Genset good for home, construction sites, residential, hospital, etc.

- 90 db(A)**---Subway / Truck
- 80 db(A)**---Average city traffic
- 70 db(A)**---Inside Car at 60 mph
- 60 db(A)**---Air conditioner at 6m
- 50 db(A)**--- Conversation



**METCL Genset at 7m**

**69 db(A)**

**Specification of P88GFS Generator**

Frequency	Voltage	Prime kW (kVA)	Standby kW (kVA)	Speed rpm	Current Amps
50 Hz	380/220V	64 (80)	70 (88)	1500	121.5
	400/230V	64 (80)	70 (88)	1500	115.2
	415/240V	64 (80)	70 (88)	1500	111.3

Fuel Consumption	Prime kW (kVA)			
	64 (80)			
Rating	1/4	1/2	3/4	Full
US gph	1.21	2.3	3.33	4.44
L/hr	4.6	8.7	12.6	16.8

<b>Fuel Tank</b>	<b>38.3 Gallons (145 Litres)</b>
<b>Continuous Running</b>	<b>8-12 Hrs</b>
<b>Fuel Tank Type</b>	<b>Integrated base</b>

## ENGINE PERFORMANCE

Engine Manufacturer	PERKINS
Engine Model	1104C-44TAG1
Configuration	4 Cycle; 4 Cylinder Vertical In-line
Aspiration	Turbocharger, air to air charge cooled
Engine Standby Power	82.5 kW (110.6HP)
Bore × Stroke, mm	105 × 127
Rated Speed, rpm	1500
Compression ratio	18.2:1
Displacement L	4.4
Governor regulation %	≤5%
Starting voltage	12/24 Volts DC Options

## EXHAUST SYSTEM

Maximum Back Pressure kPa	12
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## AIR INTAKE SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner	
-Dirty Element-kPa	8.0
-Clean Element-kPa	5.0

## LUBRICATION SYSTEM

Normal oil temperature-%	100
Max continuous oil temperature-%	125
Maximum sump capacity-Litre	7.0
Minimum sump capacity- Litre	5.5
Total Lube System Oil Capacity-Litre	8.0

## FUEL SYSTEM

Type Injection System	Direct Injection
Fuel injection pump	rotary
Fuel lift pump pressure- kPa	17
Governor type	Perkins LCS Electronic governor

## COOLING SYSTEM

Coolant Capacity- With radiator- Litre	12.6
Coolant Capacity- Without radiator- Litre	7.0
Maximum top tank temperature- °C	110
Standard Thermostat operating Range-°C	82-93

## ELECTRICAL SYSTEM

Type	Negative ground
Alternator	12/24V options
Cranking Motor(Heavy Duty,Positive Engagement)-Volt	12V/24V options

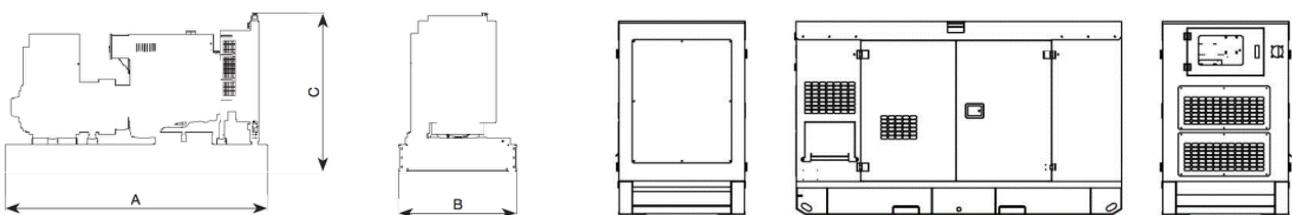
## AC ALTERNATOR

Alternator Manufacturer	MECC ALTE	
Alternator Model	ECP32 2L4C	
Winding Pitch	2/3	
Excitation	Static regulated, brushless, self-excited	
Number of bearings	Single bearing, close coupled	
Insulation Class	Class H	
Protection Class	IP23	
Temperature rise °C	125/40	
Power Rating		
	KVA	82.5
	KW	66
Maximum Overspeed	2250	
Rated Power Factor	0.8	
Voltage regulator	DSR	
Pole number	4	
Phase number	3	
Number of wires	12	
Voltage regulation	Less than $\pm 1.0\%$	
Wave form deviation	10	
Telephone Influence Factor (TIF) %	Less than 2%	
Harmonic Distortion (THD) %	Less than 2.5-2.9%	

WEIGHT	Open	Enclosed
Unit dry weight kgs	860	1560
Unit wet weight kgs	1000	1700

DIMENSIONS	Length	Width	Height
Standard open set dimensions	1900	800	1300
Enclosed set standard dimensions	2700	1050	1600

## GENSET OUTLINE



## Rating Definitions and Conditions

**Emergency Standby Power (ESP)**- Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528.

**Prime Power (PRP)**- Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operating and the generator can supply 10% overload power.

**Designed to Meet Specifications:** ISO 8528, EN12601, EN 60204-1, ISO 3046, IEC 60034.

**Ratings** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

**Fuel rates** are based on fuel oil of 35 API {16(60F)} gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when use at 29 (85F) and weighing 838.9 g/liter (7.001 lbs/U.S.gal)

Additional ratings may be available for specific customer requirements, contact your METCL representative for details.

## Formulas for calculating fuel load currents.

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

## See your distributor for more information.

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