## Prime 72kW (90kVA) 50Hz 3-P





Image shown may not reflect actual configuration.

### **METCL GENSET DECIBELLEVES**

Revolving field, selfventilated 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

METCL Genset at 7m

60 db(A)---Air conditioner at 6m

50 db(A)--- Conversation



# Specification of DP100GFS Generator

Frequency	Voltage	Prime kW (kVA)	Standby kW (kVA)	Speed rpm	Current Amps
50 Hz	380/220V	72 (90)	80 (100)	1500	136.7
	400/230V	72 (90)	80 (100)	1500	129.6
	415/240V	72 (90)	80 (100)	1500	139.1

Fuel Consumption	Prime kW (kVA)				
	72 (90)				
Rating	1/4	1/2	3/4	Full	
US gph	1.58	2.8	4.2	5.7	
L/hr	6.0	10.6	15.9	21.6	

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



ENGINE PERFORMANCE	
Engine Manufacturer	DEUTZ
Engine Model	BF4M2012C G2
Configuration	4 Cycle; 4 Cylinder Vertical In-line
Aspiration	Turbocharger, CAC
Engine Gross Standby Power	93 kW (110.6HP)
Bore × Stroke, mm	101 × 126
Rated Speed, rpm	1500
Compression ratio	18.1:1
Displacement L	4.04
Governor regulation %	≤5%
Starting voltage	24 Volts
EXHAUST SYSTEM	
Maximum exhaust back pressure- mbar	30
Exhaust gas flow (at above temp) —m³/h	1087
Maximum exhaust gas temperature - °C	600
AIR INTAKE SYSTEM	
Max.intake depression (Switch setting)—mbar	25
Combustion air volume—m³/h	320
LUBRICATION SYSTEM	
Max. permissible oil temperature-%	125
Mini. Oil pressure (warning)- bar	1.8
Mini. Oil pressure (shutdown)- bar	1.5
Total Lube System Oil Capacity (Sump)-Litre	8.5
FUEL SYSTEM	
Type Injection System	Single Injection pumps
Governor type	Electronic governor
COOLING SYSTEM	
Coolant Capacity- With radiator- Litre	15.9
Coolant Capacity- Without radiator- Litre	6.0
Maximum coolant outlet temperature- °C	105
Standard Thermostat operating Range-℃	82-93
ELECTRICAL SYSTEM	
Туре	Negative ground
Alternator	24V 35A
Cranking Motor(Heavy Duty,Positive Engagement)-Volt	24V 6kW

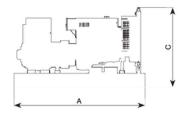


AC ALTERNATOR		
Alternator Manufacturer	MECC ALTE	
Alternator Model	ECP34 1S4C	
Widing Pitch	2/3	
Excitation	Static regulated, brushless, self-excited	
Number of bearings	Single bearing, close coupled	
Insulation Class	Class H	
Protection Class	IP23	
Temperature rise $^{\circ}\!$	150/40 (125/40)	
Power Rating		
KVA	93 (87.5)	
KW	74 (70)	
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 ± 1.0%	
Wave form deviation	10	
Telephone Influence Factor (TIF) %	Less than 2%	
Harmonic Distortion (THD) %	Less than 2.5-2.9%	

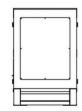
WEIGHT	Open	Enclosed
Unit dry weight kgs	900	1600
Unit wet weight kgs	1040	1740

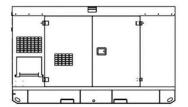
DIMENSIONS	Length	Width	Height
Standard open set dimensions	1900	800	1300
Enclosed set standard dimensions	2700	1050	1600

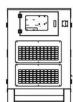
## **GENSET OUTLINE**













## 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/Ib) when use at 29 (85F) and weighing 838.9 g/liter (7.001 Ibs/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 Single phase output

kWx1000 kWxSingleP haseFactor x1000 Voltage

Voltagex1. 73x0.8

### See your distributor for more information.

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