

METCL C88GFS Generator Set

Prime 64kW (80kVA) 50Hz 3-P

Powered by



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 --Subway / Truck Traffic
- 80 --Average city traffic
- ➔ METCL Genset at 7m
- 70 --Inside Car at 60 mph
- 60 --Air conditioner at 6m
- 50 --Normal Conversation

75 db(A)

Specification of C88GFS 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	1.35	2.4	3.54	4.65
L/hr	5.1	9.1	13.4	17.6

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

ENGINE PERFORMANCE

Engine Manufacturer	Cummins
Engine Model	4BTA3.9-G11
Configuration	4 Cycle; In-line; 4 Cylinder Diesel
Aspiration	Turbocharger and After-cooled
Engine Standby Power	80 kW (107HP)
Bore × Stroke, mm	102 × 120
Rated Speed, rpm	1500
Compression ratio	17.3:1
Displacement L	3.9
Governor regulation %	≤5%
Starting voltage	24 Volts DC

EXHAUST SYSTEM

Maximum Back Pressure kPa	10
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AIR INTAKE SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner

-Dirty Element-kPa	6.2
-Clean Element-kPa	3.7

LUBRICATION SYSTEM

Engine Oil Pressure for Engine Protection Devices

-Idle Speed (Minimum)-kPa	207
-Governed Speed(Maximum)-kPa	345
Maximum Oil Temperature-°C	121
Minimum Required Lube System Capacity-Litre	10.9

FUEL SYSTEM

Type Injection System	BYC PB Direct Injection
Maximum Restriction at Lift Pump-kPa	13.6
Maximum Fuel Inlet Temperature-°C	70
Total Drain Flow(constant for all loads)-Litre/hr	30

COOLING SYSTEM

Coolant Capacity- Engine Only- Litre	8.3
Maximum Coolant Friction Head External to Engine-1500rpm-kPa	35
Maximum Static Head of Coolant Above Engine Crank Centerline-m	14
Standard Thermostat(Modulating)Range-°C	82-95
Minimum Pressure Cap-kPa	69
Maximum Top Tank Temperature for Standby/Prime Power-°C	110/104

ELECTRICAL SYSTEM

Cranking Motor(Heavy Duty,Positive Engagement)-Volt	24V / 12V
Battery Charging System, Negative Ground-Amps	40 / 63

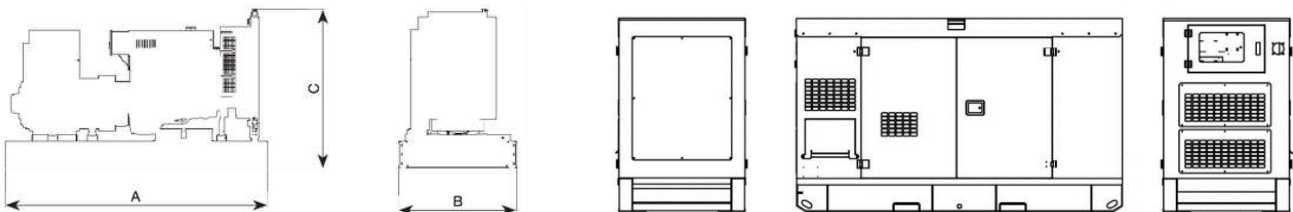
AC ALTERNATOR

Alternator Manufacturer	STAMFORD	
Alternator Model	UCI224G	
Pitch	2/3	
Excitation	Static regulated, brushless, self-excited	
Number of bearings	Single bearing, close coupled	
Insulation	Class H	
Temperature rise °C	125/40	
Power Rating		
	KVA	85
	KW	68
Enclosure	Drip proof IP23	
Rated Power Factor	0.8	
Voltage regulator	A.V.R	
Voltage regulation	Less than $\pm 1.0\%$	
Wave form deviation	10	
	Telephone Influence Factor (TIF) %	Less than 2%
	Harmonic Distortion (THD) %	Less than 2%

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	2500	1050	1500

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

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

Single phase output

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

See your distributor for more information.

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