

METCL C825GFS Silent Generator

Prime 600kW (750kVA) 50Hz 3 P

Powered by



Image shown may not reflect actual configuration.

METCL GENSET DECIBELLES

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 Traffic

➔ **METCL Genset at 7m**

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

82 db(A)

Specification of C825GFS Generator

Frequency	Voltage	Prime kW (kVA)	Standby kW (kVA)	Speed rpm	Current Amps
50 Hz	380/220V	600 (750)	660 (825)	1500	1139.5
	400/230V	600 (750)	660 (825)	1500	1080.0
	415/240V	600 (750)	660 (825)	1500	1043.4

Fuel Consumption	Prime kW (kVA)			
	600 (750)			
Rating	1/4	1/2	3/4	Full
US gph	10.8	20.6	30.1	40.9
L/hr	41	78	114	155

Fuel Tank	219.3 Gallons (830 Litres)
Continuous Running	6-10 Hrs
Fuel Tank Type	Integrated base

ENGINE PERFORMANCE

Engine Manufacturer	Cummins
Engine Model	QSK19-G20
Configuration	4 Cycle; In-line; 6 Cylinder Diesel
Aspiration	Turbocharged, Air to Air
Bore, mm	159
Stroke, mm	159
Rated Speed, rpm	1500
Engine Rated Power- kW	668
Engine Gross Power- kW	739
Compression ratio	14.3:1
Displacement L	18.9
Governor regulation %	≤3%
Starting voltage	24 Volts DC

EXHAUST SYSTEM

Maximum Back Pressure kPa	10.1
Exhaust Temp °C	532

AIR INTAKE/EXHAUST SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner	
-Dirty Element-kPa	6.2
-Clean Element-kPa	3.7
Minimum required Air Intake Area m ²	5.4
Minimum required Air Exhaust Area m ²	4.5

LUBRICATION SYSTEM

Engine Oil Pressure for Engine Protection Devices	
-Idle Speed (Minimum)-kPa	276
-Governed Speed(Maximum)-kPa	414
Maximum Oil Temperature-°C	121
Minimum Required Lube System Capacity-Litre	72

FUEL SYSTEM

Type Injection System	ECM
Maximum fuel return line pressure	
High idle speed- mm-hg	102
Load-mm-hg	203

COOLING SYSTEM

Coolant Capacity- Engine Only- Litre	130
Standard Thermostat(Modulating)Range-°C	83-95
Minimum Pressure Cap-kPa	69
Maximum Top Tank Temperature for Standby/Prime Power-°C	110/104

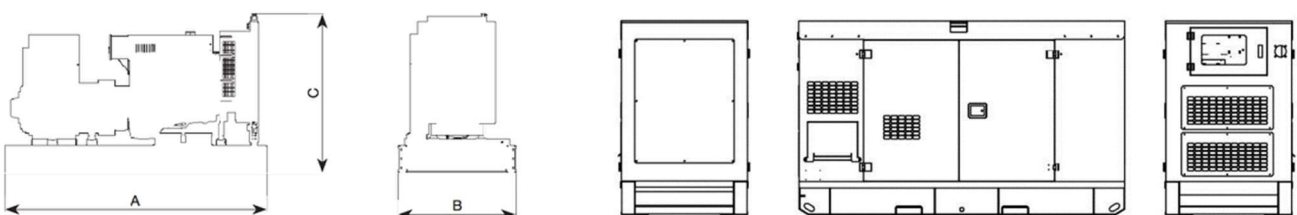
AC ALTERNATOR

Alternator Manufacturer	STAMFORD	
Alternator Model	S5L1D-H41	
Winding Pitch	2/3	
Winding Leads	12	
Winding Number	311	
Number of Poles	4	
IP Rating	IP23	
Excitation	Static regulated, brushless, self-excited	
Insulation	Class H	
Temperature rise °C	125/40	
Power Rating		
	KVA	750
	KW	600
Rated Power Factor	0.8	
Overspeed capability -%of rated	25	
Voltage regulator	A.V.R	
AVR Type	MX321	
Voltage regulation	Less than $\pm 1.5\%$	
Wave form deviation	10	
	Telephone Influence Factor (TIF) %	Less than 2%
	Harmonic Distortion (THD) %	Less than 2%

WEIGHT	Open	Enclosed
Unit dry weight kgs	5200	6800
Unit wet weight kgs	6000	7600

DIMENSIONS	Length	Width	Height
Standard open set dimensions	4000	1550	2100
Enclosed set standard dimensions	5000	2200	2200

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

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

Single phase output

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

See your distributor for more information.

METCL Diesel Generator
Jiangqiao Town, Jiading District,
Shanghai City, P.R CHINA
Tel: +86 150 5281 2001
E-mail: info@suterpower.com
Web: www.suterpower.com