

METCL P825GFS Generator Set
Prime 600kW (750kVA) 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

➔ **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

83 db(A)

Specification of P825GFS 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	20.8	31.4	33.5	42
L/hr	79	119	127	159

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

ENGINE PERFORMANCE

Engine Manufacturer	PERKINS
Engine Model	4006-23TAG2A
Configuration	4 Cycle; 6 Cylinder Vertical In-line
Aspiration	Turbocharger and air-to-air charge cooled
Bore × Stroke, mm	160 × 190
Rated Speed, rpm	1500
Compression ratio	13.6:1
Displacement L	22.921
Engine Prime Power – kW	658
Engine Gross Power – kW	721
Governor regulation %	≤5%
Starting voltage	24 Volts DC Options

EXHAUST SYSTEM

Exhaust outlet size (internal)-mm	2 x 152,4
Exhaust Back Pressure- mm H ₂ O	610

AIR INTAKE SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner

-Dirty Element- mm H ₂ O	127
-Clean Element- mm H ₂ O	138

LUBRICATION SYSTEM

Total Lube System Oil Capacity-Litre	113.4
Minimum Lube oil pressure at rated speed- kPa	240
Lube oil values open- kPa	300
Lube oil pump flow- Litre	3.7

FUEL SYSTEM

Type Injection System	Direct Injection
Fuel injector	Combined unit injector
Fuel delivery- Litres/hour	660
Governor type	Electronic governor

COOLING SYSTEM

Coolant Capacity- With radiator- Litre	105
Radiator face area- m ²	2.569
Maximum top tank temperature- °C	98
Coolant flow- Litre/s	10

ELECTRICAL SYSTEM

Type	Negative ground
Alternator	24V
Cranking Motor(Heavy Duty,Positive Engagement)-Volt	24V 7.5kW

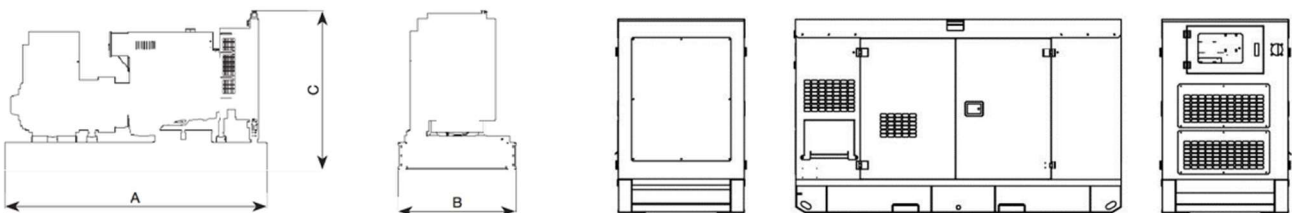
AC ALTERNATOR

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	5500	7100
Unit wet weight kgs	6400	8070

DIMENSIONS	Length	Width	Height
Standard open set dimensions	4100	1800	2200
Enclosed set standard dimensions	5300	2200	2400

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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