

#### **Generator set data sheet**

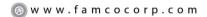


Model: C1760 D5e

Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:		SS17	-CPGK					
	Standb	ру			Prime			
Fuel consumption	kVA (k	W)			kVA (kV	V)		
Ratings	1760 (1	1408)			1600 (1	1600 (1280)		
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	31.7	55.9	80.0	104	29.8	51.9	74.1	96.3
L/hr	120	212	303	395	113	197	281	365
Engine			Stand	dby rating		Prime	rating	
Engine manufacturer			Cumr	mins		·		
Engine model			QSK	QSK60-GS3				
Configuration			Cast	Cast iron, 60° V16 cylinder				
Aspiration			Turbo	Turbocharged and low temperature after-cooled				
Gross engine power output, kWm		1835	1835 1620					
BMEP at set rated load, kPa		2434	2434 2193					
Bore, mm		159	159					
Stroke, mm		190	190					
Rated speed, rpm		1500	1500					
Piston speed, m/s			9.5	9.5				
Compression ratio			16.2:	16.2:1				
Lube oil capacity, L			378	378				
Overspeed limit, rpm		1725	1725 ±50					
Regenerative power, kW		146	146					
Governor type		Elect	Electronic					
Starting voltage		24 Vo	24 Volts DC					
Fuel flow			<u>.</u>					
Maximum fuel flow, L/hr		1630	1630					
Maximum fuel inlet restriction, mm Hg		203	203					

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Maximum fuel inlet temperature, °C







Air	Standby rating	Prime rating
Combustion air, m <sup>3</sup> /min	139	125
Maximum air cleaner restriction, kPa	6.2	

## **Exhaust**

Exhaust gas flow at set rated load, m³/min	320	295
Exhaust gas temperature, °C	477	452
Maximum exhaust back pressure, kPa	6.7	

# Standard set-mounted radiator cooling

Ambient design, °C	27
Fan load, kW <sub>m</sub>	33
Coolant capacity (with radiator), L	580
Cooling system air flow, m³/sec @ 12.7 mm H <sub>2</sub> O	40
Total heat rejection, Btu/min	
Maximum cooling air flow static restriction mm H <sub>2</sub> O	12.7

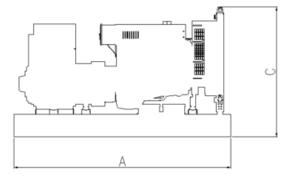
Weights*	Open	Enclosed
Unit dry weight kgs	14825	
Unit wet weight kgs	16040	

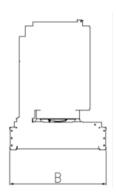
<sup>\*</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length	Width	Height
Standard open set dimensions mm	6175	2494	3422
Enclosed set standard dimensions mm			

## **Genset outline**

#### Open set





Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.





## **Alternator data**

Connection	Temp rise °C	Duty	Alternator	Voltage
Wye, 3-phase	163 / 125	S/P	PI734D	400 – 416 V
Wye, 3-phase	105*	Р	PI734E	400 – 416 V

<sup>\*</sup>Option available only through ETO (Engineering to Order)

# **Ratings definitions**

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
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. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

# Formulas for calculating full load currents:

Three phase output	Single phase output		
kW x 1000	kW x SinglePhaseFactor x 1000		
Voltage x 1.73 x 0.8	Voltage		

