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POWERED BY Rev : 1 cummins

MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>		STANDBY <sup>(2)</sup>	
PI 754C	1800 / 60	480 / 277	681.0 kVA / 545.0 kWe	754	4.0 kVA / 603.2 kWe	
ENGINE SPEC	IFICATIONS		FUEL SYSTEM			
Rated Output (PRP) <sup>(1)</sup>		608 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water separator		vater separator	
Rated Output (ESP) (2)		671 kW <sub>m</sub>	Recommended Fuel		ass A2 Diesel	
Engine Make & Model		Cummins VTA28-G5	Fuel Consumption Standby		0 L/hr / 45.7 US gal/h	
No. of Cylinders		12 Vertical In-line	Fuel Consumption 100% PRP		0 L/hr / 40.7 US gal/h	
Cycle		4 Strokes	Fuel Consumption 75% PRP		0 L/hr / 31.2 US gal/h	
Aspiration		Turbocharged and Aftercooled	Fuel Consumption 50% PRP 84.0 L/hr		L/hr / 22.2 US gal/hr	
Cooling Method		Water	EXHAUST SYSTEM			
Governing Type		Electronic	Muffler Type		lustrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		.13 kPa	
Compression Ratio		13.1 : 1.0	Exhaust Gas Flow (PRP/ESP)		1.28 / 142.74 m <sup>3</sup> /mii	
Displacement		28.0 L / 1710 in <sup>3</sup>	Exhaust Gas Temperature (PRP/ESP) 474 / 502 °C			
Bore/Stroke (mm / in)		(140/152) / (5.5/6.0)	ALTERNATOR SPECIFICATIONS		S	
Battery and Charger Alternator		24 VDC, 35 Amp	Rated Output (Prime) <sup>(1)</sup> 825.		5.0 kVA	
AIR SYSTEM			Rated Output (Stand	by) <sup>(2)</sup> 87	5.0 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		mford HCI544F/ D-F	
Combustion Air	Flow (PRP)	58.5 m <sup>3</sup> /min	Number of Poles			
Combustion Air	Flow (ESP)	52.68 m <sup>3</sup> /min	Number of Winding Leads			
Radiator Air Flo	W	64.56 m <sup>3</sup> /min	Type of Bearing		ngle	
COOLING SYS	ТЕМ		Insulation Class / Temp Rise		Н	
Total Coolant C	apacity	80 L / 21.2 US gal	Efficiency		.0%	
Water Pump Ty	vpe	Centrifugal Eng-Driven	Ingress Protection Rating		23	
Radiator Fan Load		19.6 kW	Excitation System		If Excited	
Heat Radiation to Room (PRP)		92 Kw	AVR Model Stamfor		S440	
Heat Radiation to Room (ESP)		105 kW	ALTERNATOR OPERATING DA		ГА	
LUBRICATION SYSTEM			Overspeed		50 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation		.0 %	
Total Oil Capacity		83.0 L / 21.9 US gal.	Wafeform distortion		No load <1.5% Linear load <5%	
Oil Pan		68.0 L / 18 US gal.	Radio Interface Standa		ard EN61000-6-2:2001	
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow 1.312 m <sup>3</sup> /s		12 m <sup>3</sup> /sec	

<sup>(1)</sup> **PRIME POWER RATING (PRP):** PRP is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% of PRP unless otherwise agreed by RIC engine manufacturer. An overload capability of 10% of 100% of the prime rated electrical power is permitted for emergency use for a period of 1 hour within 12 hours of operation

<sup>(2)</sup> **EMERGENCY STANDBY POWER RATING (ESP):** ESP is defined as the maximum power available during a variable electrical power sequence, under the stated operation condition, for which a generating set is capable of delivering power in the event of a utility power outage or under test condition for up to 200 Hours of operation per year. The permissible average output over 24 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.





# PI 754C Industrial Generating Set





CONTROLLER SPECIFICATIONS					
Controller Make & M	DeepSea 6120				
Operation Mode	MRS / AMF (optional)				
Display	-lit LCD (128x64) pixles				
Ingress Protection F	IP65				
Binary Inputs/Outpu	6 / 4				
Analog Inputs	4				
Measurement Vac, A, H		z, kVA, kW, Vdc			
Event Log Alarms log		g, Hrs log			
Communication	USB				

## **ENCLOSURE SPECIFICATIONS**

Enclosure Type	Acousti	Acoustic & Weather Proof			
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP23				
Lifting	Lifting ISO Star				
Emergency	Emergency External E				
Canopy RAL Color	RAL 2000				
Baseframe RAL Co	RAL 9011				
Noise Pressure leve	85 dB(A)				

## GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3875	1731	2556	960	5600	5660
CLOSE	5791	1722	3270	1030	7500	7560

## STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 °C ambient temperature.

Robust structure design of Enclosure and Baseframe.

Hevy duty lifting lugs.

Multi doors for easy access & maintenance.

Ingress Protection Rating according to BS EN 60529.

Heavy Duty Baseframe with built-in tank & forklift pockets.

Industrial Grade Muffler with rain cap.

## **OPTIONAL FEATURES**

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Residential / Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

## Application

Infrastructure, Industrial, Residential, Telecom, Defence, Mining, Agriculture,

STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comperhensive protection and to monitor the parameters of generating set.

MCCB power circuit breaker.

Battery with charging alternator, cables, and tray.

Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.



