



Frequency : 60Hz
 Fuel Type : Diesel

COOL POWER GENSET TECHNICAL DATA



Model CPC750/CPC850E

Standby power 687kW / 859kVA

Prime power 625kW / 781kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	687 (859)				625 (781)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
L/hr	N.A	N.A	N.A	173	50.6	83.5	117.6	154

Engine

Engine manufacturer	Cummins
Engine model	KT38-G
Configuration	4-Cycle;60° Vee; 12-Cylinder Diesel
Aspiration	Turbocharged
Gross engine power output -- kWm	746
BMEP at set rated load -- kPa	1310/1193
Bore -- mm	159
Stroke -- mm	159
Rated speed -- rpm	1800
Piston speed -- m/s	9.5
Compression ratio	15.5:1
Lube oil capacity -- L	135.1
Overspeed limit -- rpm	N.A.
Regenerative power -- kWm	127
Governor type	Electrical
Starting voltage	24 Volts DC

Fuel flow

Recommended fuel	ASTM
Governor Type	Cummins PT
Max fuel transfer pump suction--(m)	2.8

Oil system

Oil system capacity--(L)	134.1
Recommended oil	API-CD OR BETTER
Oil max temperature--(°C)	121
Oil consumption at 100%--(L/hr)	0.77

Air

Combustion air -- m ³ /min	77.88/72.24
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Exhaust

Exhaust flow--(m³/min) 201.1/184.1

Exhaust temperature--(°C)	491/478
Allowable restriction--(kPa)	10
Exhaust pipe diameter--(mm)	2 × Φ 127

Standard set-mounted radiator cooling

Radiator and engine capacity--(L)	199.5
Fan power--(kW)	22
Fan Air flow--(m ³ /min)	1170
Coolant normal temperature--(°C)	82-93
Max water temperature--(°C)	104/100
Type of coolant	50% ethylene glycol; 50% water

Alternator

Alternator manufacturer	Stamford
Alternator model	HCI544F
Control System	SELF-EXCITED
Insulation class	H
Temperature Rise	H
Rated Power Factor	0.8
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ± 5%
Weight--(kg)	1685
A.V.R.	AS440
Protection	IP 23
Stator Winding	Double layer Concentric
Winding Leads	12
Voltage regulation	≤ ± 0.5%
Bearing number	1
Cooling Air--(m ³ /sec)	1.312

Weights*

	Open	Enclosed
Unit wet weight kgs	N/A	N/A

* Weights represent a set with standard features. See outline drawing for weights of other configurations

Dimensions

	Length "A"	Width "B"	Height "C"
Standard open set dimensions, mm	N/A	N/A	N/A

Control Panel

Manual Control Panel:	Auto Control Panel:	Remote control Panel:
Manual start	Manual and auto start	All the parameter can display on LCD screen
Voltage, Current, Frequency, Battery voltage, Hour meter, Charger Alternator Voltage and Speed(R.P.M) can be displayed by means of LCD	The parameter of Voltage, Current, Frequency, Battery voltage, Hour meter, Charger Alternator Voltage and Speed(R.P.M) can be displayed on LCD screen	It includes all the function of manual and auto control panel. Detect RPM of the gen-set, active power, power factor and so on.
Emergency stop pushbutton	Emergency stop push button	It also can detect main parameter, include main voltage, main frequency. Event and performance log

See your distributor for more information.

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