



Frequency : 50Hz  
 Fuel Type : Diesel

# COOL POWER GENSET

## TECHNICAL DATA



**Model CPC1650/CPC1830E**

Standby power 1464kW/ 1830kVA

Prime power 1320kW / 1650kVA

Fuel consumption	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	1464(1830)				1320 ( 1650)			
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	380	104	190	265	341

### Engine

Engine manufacturer	Cummins
Engine model	QSK50-G7
Configuration	4-Cycle; Vee; 16-Cylinder Diesel
Aspiration	Turbocharged and aftercooled
Gross engine power output -- kWm	1582
BMEP at set rated load -- kPa	2260
Bore -- mm	159
Stroke -- mm	159
Rated speed -- rpm	1500
Piston speed -- m/s	7.9
Compression ratio	15.0:1
Lube oil capacity -- L	235
Overspeed limit -- rpm	N/A
Regenerative power -- kWm	116
Governor type	Electronic
Starting voltage	24 Volts DC

### Fuel flow

Recommended fuel	ASTM NO.2-D
Governor Type	Electronic
Max fuel transfer pump suction--(m)	1.7

### Oil system

Oil system capacity--(L)	235
Recommended oil	API-CD OR BETTER
Oil normal temperature--(°C)	121
Oil consumption at 100%	1.7/1.9

### Air

Combustion air -- m <sup>3</sup> /min	116.1/124.8
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### Exhaust

Exhaust flow--(m <sup>3</sup> /min)	292.5/321.6
Exhaust temperature--(°C)	≤520
Allowable restriction--(kPa)	6.8

Exhaust pipe diameter--(mm)	2 × Φ 159
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**Standard set-mounted radiator cooling**

Radiator and engine capacity--(L)	327
Fan power--(kW)	32
Fan Air flow--(m <sup>3</sup> /min)	N/A
Coolant normal temperature--(°C)	82-93
Max water temperature--(°C)	104
Type of coolant	Glycol

**Alternator**

Alternator manufacturer	Stamford
Alternator model	PI734E
Control System	PMG
Insulation class	H
Temperature Rise	H
Rated Power Factor	0.8
Winding Pitch	Two Thirds
Voltage adjust scope	≥ ± 5%
Weight--(kg)	3556
A.V.R.	MX321
Protection	IP 23
Stator Winding	Double layer Concentric
Winding Leads	6
Voltage regulation	≤ ± 10%
Bearing number	1
Cooling Air--(m <sup>3</sup> /sec)	2.69

**Weights\***

	Open	Enclosed
Unit wet weight kgs	12500	12827

\* 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	5495	2200	2780

**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.
Emergency stop pushbutton	Emergency stop push button	Detect RPM of the gen-set, active power, power factor and so on. 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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