JENSONN

Perkins

Genset Model: J5G12.4PC-1P

OUTPUT RATINGS

Generating Set Model 50Hz 240V 1Phase 2Wire	Prime*		Standby*	
J5G12.4PC-1P	9	KW	9.9	KW
	11.3	KVA	12.4	KVA

TECHNICAL DATA

Engine Model:	Perkins®403D-15G
Alternator Model:	MECC®ECP28 3S4C
Control Panel:	DSE4520
Base Frame Type:	With fuel tank
Circuit Breaker Type:	4 Pole MCCB
Frequency:(HZ)	50
Fuel Tank Capacity(L):	120

GENERAL ENGINE DATA

Engine Model	Perkins®403D-15G
Type	In-line; 3 Cylinder
Aspiration	Naturally Aspirated
Bore*Stroke (mm)	84*90
Cubic capacity (L)	1.496
Compression ratio	22.5:1
Dry weight (kg)	197

AIR INDUCTION SYSTEM

Max.allowable intake air restriction	
With clean filter element(kPa)	3
With dirty filter element(kPa)	6.4

EXHAUST SYSTEM

Max.allowable back pressure(kPa)	10.2

TECHNICAL DATA

Engine speed (rpm)	1500
Prime power (kW)	12
Standby power (kW)	13.3
Gross engine power (kW)	12.2
Brake mean effective pressure (kPa)	650
Mean piston speed (m/s)	4.5
Combustion air flow (m^3/min)	1.1
Exhaust gas temperature (℃)	445
Exhaust gas flow (m^3/min)	2.7

COOLING SYSTEM

Coolant capacity	
Engine only(L)	2.6
Max. static pressure on pump (kPa)	30.4
Standard thermostat range(℃)	82-95
Pressure cap setting (kPa)	90
Max. top tank temperature(℃)	112

CONSUMPTION

Standby power(L/h)	7.5
100% prime power(L/h)	6.8
75% prime Power(L/h)	5.5
50% prime power(L/h)	4.4
25% prime power(L/h)	TBD
Continuous power(L/h)	TBD

LUBRICATION SYSTEM

Oil Pressure	
Min. oil pressure (kPa)	120
Normal oil temperature (℃)	125
Oil flow at rated speed (L/min)	10.9
Oil capacity sump maximum/minimum (L)	6/4.5
Total system capacity(L)	TBD

NOTE:
All data is based on:
1. Engine operating with fuel system, water pump, lubricating oil pump, air cleaner and exhaust silencer; not included are battery charging alternator, fan, and optional driven components.
2. Engine operating with fuel corresponding to grade No. 2-D per ASTM D975.
3. ISO 3046, Part 1, Standard Reference Conditions of:
Barometric Pressure : 100 kPa (29.53 in Hg) Air Temperature : 25℃(77℉)
Altitude: 110 m (361 ft) Exhaust Restriction: 51 mm Hg (2 in Hg)
Air Intake Restriction: 254 mm H2O (10 in H2O) Relative Humidity : 30%

TBD: To Be Determined N/A: Not Available
CP: Continuous power FSP: Fuel stop power

Altitude:
Derating is at 2.0% per 300m for elevation above 1000m. For attitude more than 2450m, please contact us or our dealer for assistance.
Temperature: Derating is at 6.0% per 11 degree for temperature above 40 degree.

ALTERNATOR

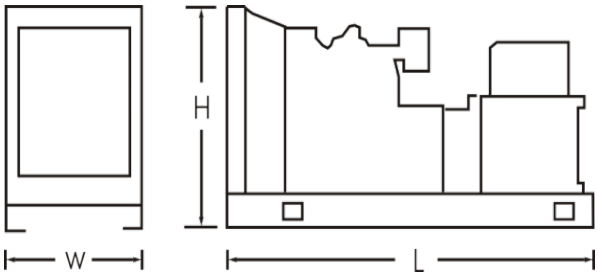
Alternator Model	MECC®ECP28 3S4C
Frequency and Speed	50Hz/1500rpm
Voltage(V)	240
Prime capacity(KVA)	11.3
Prime power(KW)	9
Power efficiency(%)	81.3
input power(kW)	11

Voltage regulation	±1.0%
Rated power factor	0.8
Stator winding	2/3
Maximum overspeed	2250min-1
Sustained short circuit(A)	213
Cooling Air(m^3/S)	0.11

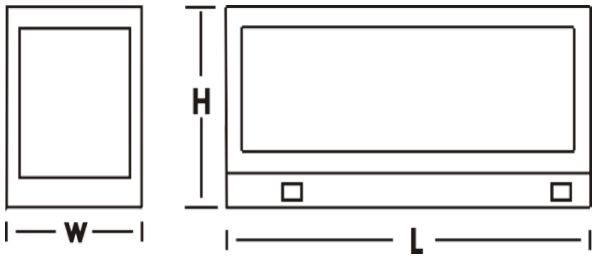
***Alternators meet the requirement of BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSAC22.2-100, As1359, and other standards and certifications can be considered on request.**
***The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion. Brushless alternator with brushless pilot exciter for excellent load response.**
***The insulation system is class H, easy paralleling with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents.**
***Backed by worldwide service network.**

Dimensions and Weights

OPEN STYLE	
Overall Size, L*W*H(mm)	1400*710*1110
Weight(radiator model), net,(kg)	423



SOUNDPROOF STYLE	
Overall Size, L*W*H(mm)	1850*870*1215
Weight(radiator model), net,(kg)	603



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

WARRANTY

Our company provides one-source responsibility for the generator set and accessories. Each generating set has been got through 2 hours Load test for running 0%, 25%, 50%, 75%, 100% and 110% load, all protective devices and control function are simulated and checked before dispatch.
All the equipments are guaranteed for a period of 1000 hours or 12months from the date of commissioning or 18 months from shipping, whichever occurs first.
Convenience for operation and maintenance, backed by Cummins global service network.

Power Definitio

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% over-load power for 1 hour in 12 hours.

Standby power (S)
Standby power is defined as the maximum power available, A standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating.