C150P5 Powered by Cummins<sup>®</sup>



PØWERZOD



Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utili ty 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. Prime Power (PRP): 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 avai lable in accordance with ISO 3046, AS 2789, DIN

6271 and BS 5514. Continuous Power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimi ted hours. Continuous Power (COP) in accordance wi th ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

POWERZOO generators are CE certified and conform to the following Directives:

•EN 12100: 2010, EN ISO 8528-13: 2016, EN 60204-1: 2018,

•EN 61000-6-2: 2019, 2006/42/CE Machinery safety

•2014/35/EU Low voltage

FREQUENCY

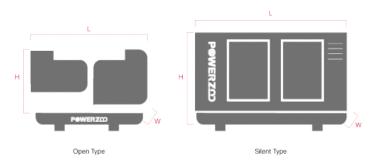
•2014/30/EU Electromagnetic compatibility

•Power according to ISO 8528 and ISO 3046

•Ambient reference conditions 1000 mbar, 25° C, 30% relative humidity. Information based on standard specification equipment unless otherwise stated.

GENERATOR MODEL			C150P5		
	Generator specificationsl		PRP	ESP	
9	Power	kW/kVA	120/150	132/165	
0	Rated speed	r.p.m.	1500		
V	Available voltages	V	380~415		
50 60 HZ	Frequency	Hz	50		
<b>3</b> PH	Phase		3-PH		
A	Power factor	$\text{Cos} \phi$	0.8		
۵	Fuel cons 100%	L/H	34		
ŝ	Starting power	kW	4.5		
	Recommended battery	Ah	80		
	Number of batteries			2	
	Auxiliary voltage	VDC	2	4V	

# Dimension and Weight



	DIMENSION		OPEN TYPE	SILENT TYPE
び 正	Length (L)	mm	2280	3312
Ŭ.II	Width (W)	mm	1100	1100
	Height (H)	mm	1650	1760
Kg	Dry weight	kg	2000	2500
K	Fuel tank	L	270	270

ISO 9001

STACKABLE

POWERZOO has the right to modify any feature without prior notice. Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this catalogue correspond to the available information at the moment of printing. The illustrations and images are indicative and may not coincide in their entirety with the product. Industrial design under patent.





P\$WERZOD

# **Engine Specifications**

ENGINE	Cummins®	ENGINE	Cummins®
Engine model	6BTAA5.9-G12	Total lubrication system capacity	16.4 L
Number of cylinders	6	Coolant capacity (with radiator)	10 L
Cylinder arrangement	Vertical in-line	Speed stability (%)	≤5%
Cycle	Four stroke	Start type	Electrical
Aspiration	Turbocharged & Charge Air Cooled	Maximum exhaust temperature	<b>507</b> ℃
Bore × Stroke	102 × 120 mm	Exhaust gas flow	357 L/S
Displacement	5.9 L	Maximum allowed back pressure	10 kPa
Compression ratio	17.3:01	Intake air flow	150 L/S
Prime power/Speed	140/1500 (kW/rpm)	Cooling air flow	1.7 L/S
Standby power/Speed	155/1500 (kW/rpm)	Consumption @ 100% load ESP	38.0 L/H
Speed governor	Electronic	Consumption @ 100% load PRP	34.0 L/H
Cooling system (open type)	$40^\circ\!\!\mathrm{C}$ tropical radiator	Consumption @ 75% load PRP	26.0 L/H
Cooling system (silent type)	$50^\circ\!\!\!\mathrm{C}$ tropical radiator	Consumption @ 50% load PRP	17.0 L/H



### Features:

- •Diesel engine
- •4-stroke cycle
- •Water-cooled

•Dry air filter

- •Radiator with pusher fan
- •Moving parts protection
- •Radiator water level sensor (Optional)
- •55 degree radiator (Optional)

- •Jacket coolant heater (Optional)
- •Lube oil heater (Optional)
- •Engine filter heater (Optional)
- •Fuel inlet line heater (Optional)
- •Heavy duty air filter (Optional)

## **Alternator Specification**

ALTERNATOR		ALTERNATOR	
Exciter type	Brushless, self-excited	Voltage regulation NL-FL	≤±1.0%
Power factor	0.8	Insulation grade	н
Voltage adjust range	≥5%	Protection grade	IP23



### Options:

- •AREP/PMG/EBS
- •Air inlet filter (5% deration)
- •louver (5% deration)
- •Space heater
- •Digital AVR
- •Severe environmental impregnation
- ration) •Stator sensor
  - •PT100

- •Rotor sensor
- •Double bearing
- •Drip proof cover
- •Terminal box IP44



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# P%WERZOD

# SmartGen Deep See <

# **Controller Functions**

OPTIONAL CONFIGURATION	Stand-alone Basic	Stand-alone Advanced	Synchronization Basic	Synchronization Advanced
Voltage between phases	•	•	•	•
Voltage between neutral and phase	•	•	•	•
Current intensities	•	•	•	•
Frequency	•	•	•	•
Apparent power (kVA)	•	•	•	•
Active power (kW)	•	•	•	•
Reactive power (kVAr)	•	•	•	•
Power factor	•	•	•	•
Coolant temperature	•	•	•	•
Oil pressure	•	•	•	•
Battery voltage	•	•	•	•
R.P.M.	•	•	•	•
Battery charge alternator voltage	•	•	•	•
High water temperature by sensor	•	•	•	•
Low oil pressure by sensor	•	•	•	•
Unexpected shutdown	•	•	•	•
Fuel storage by sensor	•	٠	•	•
Stop failure/Start failure	•	•	•	•
Overspeed/Underspeed	•	•	•	•

● Standard ○ Optional





# P\$WERZOD

OPTIONAL CONFIGURATION	Stand-alone Basic	Stand-alone Advanced	Synchronization Basic	Synchronization Advanced
Emergency stop	•	•	•	•
High/Low frequency	•	•	•	•
High/Low voltage	•	•	•	•
Short-circuit	•	•	•	•
Incorrect phase sequence	•	•	•	•
Inverse power	•	•	•	•
Overload	•	•	•	•
Total hour counter	•	•	•	•
Kilowatt meter	•	•	•	•
Starts valid counters	•	•	•	•
Maintenance	•	•	•	•
USB	•	•	•	•
Software for PC	•	•	•	•
Alarm history	•	•	•	•
External start	•	•	•	•
Start inhibition	•	•	•	•
Mains failure start	•	•	•	•
Pre-heating engine control	•	•	•	•
Fuel transfer control	•	•	•	•
Engine temperature control	•	•	•	•
Programmable alarms	•	•	•	•
Genset start function in test mode	•	•	•	•
Programmable outputs	•	•	•	•
Multilingual	•	•	•	•
RS485		•	•	•
Modbus IP		•	•	•
J1939		•	•	•
Synchronization			•	•
Mains synchronization				•
Fuel level (%)	0	0	0	0
Low water level	0	0	0	0
GSM/GPRS modem	0	0	0	0
Remote screen	0	0	0	0

• Standard O Optional

