C1375P5 Powered by Cummins<sup>®</sup>



# PØWERZOD

**GENERATOR MODEL** C1375P5 Generator PRP ESP specificationsl 1100/137 kW/kVA 1280/1600 Power (7) 5 (\_) Rated speed r.p.m. 1500 **(V)** Available voltages V 380~415 Emergency Standby Power (ESP): Applicable for supplying power to varying electrical load for the duration Frequency Hz 50 50 60 HZ 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. 3 Phase 3-PH 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 capabili ty is avai lable in accordance with ISO 3046, AS 2789, DIN Power factor 0.8  $\cos \phi$ 6271 and BS 5514. Continuous Power (COP): Applicable for supplying power continuously to a constant electrical load Fuel cons 100% L/H 289 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: kW 24V Starting power •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 Recommended Ah 120 •2014/30/EU Electromagnetic compatibility battery •Power according to ISO 8528 and ISO 3046 - + •Ambient reference conditions 1000 mbar,  $25\,^\circ$  C, 30% relative humidity. Information based on standard specification equipment unless otherwise Number of batteries 4 stated. Auxiliary voltage VDC 35 WATER-COOLED SOUNDPROOF CERTIFICATION REQUENCY DIESEL FUEL ISO 9001 STACKABLE **Dimension and Weight** OPEN DIMENSION SILENT TYPE TYPE Length (L) 5520 6058 mm DWidth (W) 2270 2438 mm Ø.E 2591 Height (H) mm 2450 OU \_Kg∖ 10950 12500 Dry weight kg Fuel tank L TBD TBD Open Type Silent Type

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.





# **Engine Specifications**

ENGINE	Cummins®	ENGINE	Cummins®
Engine model	KTA50-G8	Total lubrication system capacity	204 L
Number of cylinders	16	Coolant capacity (with radiator)	TBD L
Cylinder arrangement	60° V	Speed stability (%)	≤3%
Cycle	Four stroke	Start type	Electrical
Aspiration	Turbocharged, Aftercooled	Maximum exhaust temperature	<b>510°</b> C
Bore × Stroke	159 × 159 mm	Exhaust gas flow	4350 L/S
Displacement	50.3 L	Maximum allowed back pressure	10 kPa
Compression ratio	14.9:1	Intake air flow	1655 L/S
Prime power/Speed	1200/1500 (kW/rpm)	Engine water flow	5 L/min
Standby power/Speed	1429/1500 (kW/rpm)	Consumption @ 100% load ESP	345 L/H
Speed governor	Electronic	Consumption @ 100% load PRP	289 L/H
Cooling system (open type)	40°C tropical radiator	Consumption @ 75% load PRP	222 L/H
Cooling system (silent type)	$50^\circ\!\!\!\mathrm{C}$ tropical radiator	Consumption @ 50% load PRP	155 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
- •Stator sensor
- •PT100

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



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# SmartGen SmartGen CamAp ComAp Deep See DEF Woodward Datakorn Datakorn Datakorn

# **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	•	•	•	•

lacksquare Standard  $\hdotsquare$  Optional







# PØWERZOD

Emergency stopIIIIIHigh/Low frequencyIIIIIIHigh/Low voltageIIIIIIIShot-circuitIII<	OPTIONAL CONFIGURATION	Stand-alone Basic	Stand-alone Advanced	Synchronization Basic	Synchronization Advanced
High/Low voltage•••••Short-circuit··· <td>Emergency stop</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	Emergency stop	•	•	•	•
Short-circuitIncorrect phase sequenceInInInInInverse powerInInInInInOverloadInInInInInOverloadInInInInInTotal hour counterInInInInInKilowatt meterInInInInInStarts valid countersInInInInInMaintenanceInInInInInSoftware for PCInInInInInAlerrn historyInInInInInExternal startInInInInInYenheating engine controlInInInInInFuel transfer controlInInInInInProgrammable alarmsInInInInInProgrammable outputsInInInInInMultilingualInInInInInStats PInInInInInProgrammable outputsInInInInInMultilingualInInInInInSynchronizationInInInInInMultilingualInInInInInSynchronizationInInInInInFuel level (%)InInInInIn<	High/Low frequency	•	•	•	•
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Inverse powerInverse powerInvers	Short-circuit	•	•	•	•
Dverload••••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••••••Programmable alarms••••••Mutilingual••••••Nutbilingual••••••Nutbilingual••••••Nutbilingual••••••Nutbilingual••••••Nutbilingual••••••Nutbilingual••••••Nutbilingual••••••Nutbilingual•••	Incorrect phase sequence	•	•	•	•
Total hour counterImage: starts valid countersImage: start valid countersImage: starts valid countersImage: starts valid countersImage: starts valid countersImage: start valid countersImage:	Inverse power	•	•	•	•
Kilowatt meterIIIIStarts valid countersIIIIMaintenanceIIIIUSBIIIIISoftware for PCIIIIAlarm historyIIIIIExternal startIIIIIStart inhibitionIIIIIPre-heating engine controlIIIIIFuel transfer controlIIIIIProgrammable alarmsIIIIIRS485IIIIIIMudtus IPIIIIIIJ1939IIIIIISynchronizationIIIIIIFuel level (%)IIIIIIFuel level [Sh/CPRS modemII <tdi< td="">III<td>Overload</td><td>•</td><td>•</td><td>•</td><td>•</td></tdi<>	Overload	•	•	•	•
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USBImage: start s	Starts valid counters	•	•	•	•
Software for PCImage: startImage: star	Maintenance	•	•	•	•
Alarm historyImage: start startImage: start start startImage: start sta	USB	•	•	•	•
External start•••••••••Start inhibition·••·••·••Mains failure start·••·••·••Pre-heating engine control·••·••·••Fuel transfer control·••·••·••Fugine temperature control·••·••·••Programmable alarms·••·••·••Genset start function in test mode·••·••·••Programmable outputs·••·••·••Multilingual·••·••·••RS485·••·••·••J1939·••·••·••Synchronization·••·••·••Fuel level (%)·•·•·••Low water level·•·•·••SSM/GPRS modem·•·•·•	Software for PC	•	•	•	•
Start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionMains failure startImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionFuel transfer controlImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionFugre annable alarmsImage: start function in test modeImage: start inhibitionImage: start inhibitionImage: start inhibitionGenset start function in test modeImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionMultilingualImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionMudbus IPImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionJ1939Image: start inhibitionImage: start inhibitionJ1939Image: start inhibitionImage: start inhibitionJ1939Image: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibitionImage: start inhibition<	Alarm history	•	•	•	•
Mains failure startImage:	External start	•	•	•	•
Pre-heating engine controlImage: state in the	Start inhibition	•	•	•	•
Fuel transfer controlImage: start controlImage: start function in test modeImage: start function in test mode </td <td>Mains failure start</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	Mains failure start	•	•	•	•
Engine temperature controlImage: start function in test modeImage: start func	Pre-heating engine control	•	•	•	•
Programmable alarms••••Genset start function in test mode••••Programmable outputs•••••Multilingual•••••RS485••••••Modbus IP••••••J1939••••••Synchronization••••••Fuel level (%)••••••SyndyGPRS modem•••••••O••••••••Fuel level (%)•••	Fuel transfer control	•	•	•	•
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GSM/GPRS modem 0 0 0	Fuel level (%)	0	0	0	0
	Low water level	0	0	0	0
Remote screen 0 0 0 0	GSM/GPRS modem	0	0	0	0
	Remote screen	0	0	0	0

• Standard O Optional



E-mail: info@powerzoos.com Tel: +86 13358296663