

PØWERZOD

POWERZE ATS

Emergency Standby Power (ESP):

C190P6

Powered by Cummins[®]

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 capabili ty 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

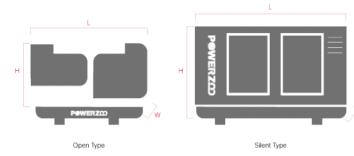
•Power according to ISO 8528 and ISO 3046

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

DIESEL FUEL

GENERATOR MODEL		C190P6			
	Generator specificationsl		PRP	ESP	
٢	Power	kW/kVA	152/190	167/209	
0	Rated speed	r.p.m.	1800		
V	Available voltages	V	220~480		
50/60 HZ	Frequency	Hz	60		
3 #	Phase		3-РН		
	Power factor	$\cos \phi$	0.8		
٢	Fuel cons 100%	L/H	44		
ŝ	Starting power	kW	7.8		
	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	2390	3412
P , P	Width (W)	mm	1100	1100
	Height (H)	mm	1650	1960
Kg	Dry Weight	kg	2100	2600
K	Fuel tank	L	350	350

SO 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.





Engine Specifications

ENGINE	Cummins [®]	ENGINE	Cummins®
Engine model	6CTA8.3-G2	Total lubrication system capacity	27.6 L
Number of cylinders	6	Coolant capacity (with radiator)	30.6 L
Cylinder arrangement	Vertical in-line	Speed stability (%)	≤3%
Cycle	Four stroke	Start type	Electrical
Aspiration	Jacket water Aftercooled	Maximum exhaust temperature	550 ℃
Bore × Stroke	114 × 135 mm	Exhaust gas flow	654 L/S
Displacement	8.3 L	Maximum allowed back pressure	10 kPa
Compression ratio	17.3:01	Intake air flow	237 L/S
Prime power/Speed	170/1800 (kW/rpm)	Cooling air flow	4.0 L/S
Standby power/Speed	187/1800 (kW/rpm)	Consumption @ 100% load ESP	50.0 L/H
Speed governor	Electronic	Consumption @ 100% load PRP	44.0 L/H
Cooling system (open type)	40°C tropical radiator	Consumption @ 75% load PRP	33.0 L/H
Cooling system (silent type)	$50^\circ\!\!\!\mathrm{C}$ tropical radiator	Consumption @ 50% load PRP	23.0 L/H



Diesel engine4-stroke cycleWater-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

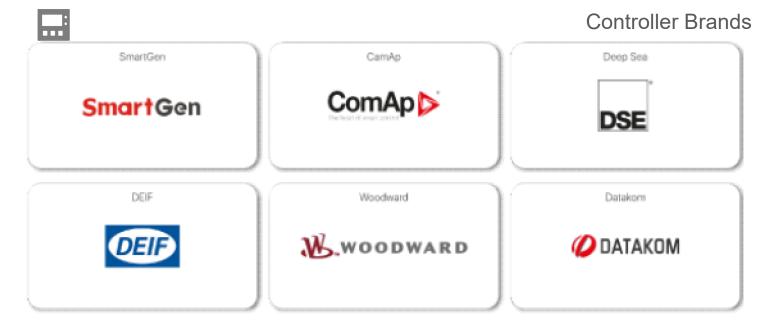
- •Double bearing
- •Drip proof cover
- •Terminal box IP44



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

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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	•	•	•	•
Stop failure/Start failure	•	•	•	•
Overspeed/Underspeed	•	•	•	•

lacksquare Standard \hdotsquare Optional



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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 (%)	Ο	0	0	0
Low water level	Ο	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