

# C180P5

Powered by Cummins®



### Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility 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 available 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 unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

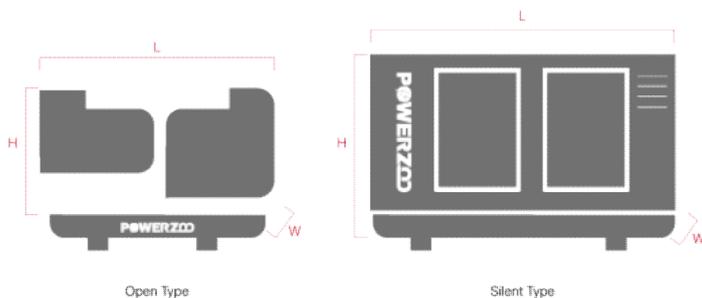
POWERZOO generators are CE certified and conform to the following Directives:

- 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
  - 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		C180P5	
	Generator specifications	PRP	ESP
	Power	kW/kVA	145/180    160/200
	Rated speed	r.p.m.	1500
	Available voltages	V	380~415
	Frequency	Hz	50
	Phase		3-PH
	Power factor	Cos φ	0.8
	Fuel cons 100%	L/H	42
	Starting power	kW	7.8
	Recommended battery	Ah	80
	Number of batteries		2
	Auxiliary voltage	VDC	24V

FREQUENCY   
 DIESEL FUEL   
 WATER-COOLED   
 SOUNDPROOF   
 CERTIFICATION   
 ISO 9001   
 STACKABLE

## Dimension and Weight



DIMENSION		OPEN TYPE	SILENT TYPE
	Length (L)	mm	2390    3412
	Width (W)	mm	1100    1100
	Height (H)	mm	1650    1960
	Dry weight	kg	2100    2600
	Fuel tank	L	350    350

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 model	6CTA8.3-G2
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Jacket water Aftercooled
Bore x Stroke	114 x 135 mm
Displacement	8.3 L
Compression ratio	17.3:01
Prime power/Speed	163/1500 (kW/rpm)
Standby power/Speed	180/1500 (kW/rpm)
Speed governor	Electronic
Cooling system (open type)	40°C tropical radiator
Cooling system (silent type)	50°C tropical radiator

ENGINE	Cummins®
Total lubrication system capacity	10.9 L
Coolant capacity (with radiator)	12.3 L
Speed stability (%)	≤3%
Start type	Electrical
Maximum exhaust temperature	563°C
Exhaust gas flow	578 L/S
Maximum allowed back pressure	10 kPa
Intake air flow	206 L/S
Cooling air flow	3.3 L/S
Consumption @ 100% load ESP	48.0 L/H
Consumption @ 100% load PRP	42.0 L/H
Consumption @ 75% load PRP	31.0 L/H
Consumption @ 50% load PRP	21.0 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	
Exciter type	Brushless, self-excited
Power factor	0.8
Voltage adjust range	≥5%

ALTERNATOR	
Voltage regulation NL-FL	≤±1.0%
Insulation grade	H
Protection grade	IP23



### Options:

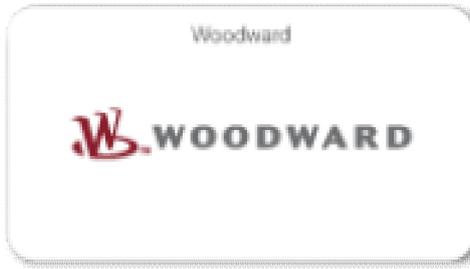
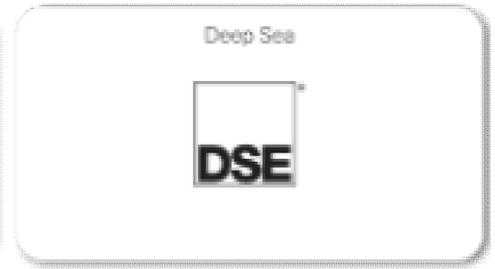
- AREP/PMG/EBS
- Air inlet filter (5% deration)
- Louver (5% deration)
- Space heater
- Digital AVR
- Severe environmental impregnation
- Stator sensor
- PT100
- Rotor sensor
- Double bearing
- Drip proof cover
- Terminal box IP44

# C180P5

Powered by Cummins®



## Controller Brands



## 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	●	●	●	●

● Standard ○ Optional

# C180P5

Powered by Cummins®



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 (%)	○	○	○	○
Low water level	○	○	○	○
GSM/GPRS modem	○	○	○	○
Remote screen	○	○	○	○

● Standard ○ Optional

