C90P6 Powered by Cummins®







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 capabili ty 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 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
- $\bullet 2014/35/\text{EU Low voltage} \\$
- •2014/30/EU Electromagnetic compatibility
- $\bullet \text{Power}$ 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		C90P6		
	Generator specificationsl		PRP	ESP	
•	Power	kW/kVA	72/90	80/100	
(2)	Rated speed	r.p.m.	1800		
w	Available voltages	V	220~480		
50 60 HZ	Frequency	Hz	60		
3	Phase		3-PH		
	Power factor	Cos Φ	0.8		
	Fuel cons 100%	L/H	20.1		
	Starting power	kW	3.7		
血的	Recommended battery	Ah	60		
	Number of batteries		2		
	Auxiliary voltage	VDC	2	24V	







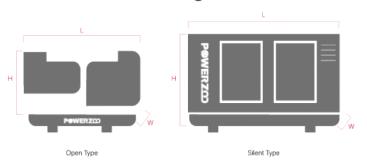








Dimension and Weight



	DIMENSION		OPEN TYPE	SILENT TYPE
	Length (L)	mm	1900	2602
白缸	Width (W)	mm	950	1100
	Height (H)	mm	1400	1525
Kg	Dry Weight	kg	1150	1650
	Fuel tank	L	150	150

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	4BTA3.9-G11
Number of cylinders	4
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged and aftero
Bore × Stroke	102 × 120 mm
Displacement	3.9 L
Compression ratio	17.3:1
Prime power/Speed	80/1800 (kW/rpm)
Standby power/Speed	90/1800 (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)	21.9 L
Speed stability (%)	≤5%
Start type	Electrical
Maximum exhaust temperature	405℃
Exhaust gas flow	210 L/S
Maximum allowed back pressure	10 kPa
Intake air flow	101 L/S
Water flow to engine	TBD
Consumption @ 100% load ESP	22.5 L/H
Consumption @ 100% load PRP	20.1 L/H
Consumption @ 75% load PRP	15.3 L/H
Consumption @ 50% load PRP	10.8 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

Brushless, self-excited
0.8
≥5%

ALTERNATOR	
Voltage regulation NL-FL	≤±1.0%
Insulation grade	Н
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



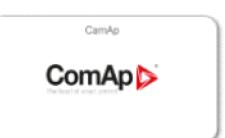
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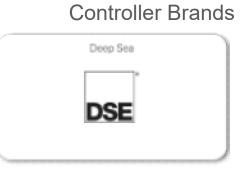
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Woodward



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



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OPTIONAL CONFIGURATION	Stand-alone	Stand-alone	Synchronization	Synchronization
	Basic	Advanced	Basic	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 ○ Optional



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