YC38P5
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POWERZOO

GENERATOR MODEL		YC38P5	
Generator specificationsl		PRP	ESP
Power	kW/kVA	30/37.5	33/41
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	10.1	
Starting power	kW	3.8	
Recommended battery	Ah	60	
Number of batteries		1	
Auxiliary voltage	VDC	12V	

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 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.
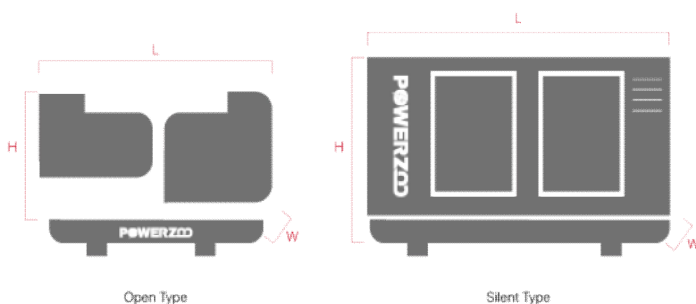
POWERZOO generators are CE certified and conform to the following Directives:
• EN 12100: 2010, EN ISO 8528-13: 2016, EN 60204-1: 2018,
• EN 61000-6-2: 2019, 2006/42/CE Machinery safety
• 2014/35/EU Low voltage
• 2014/30/EU Electromagnetic compatibility
• Power according to ISO 8528 and ISO 3046
• Ambient reference conditions 1000 mbar, 25° C, 30% relative humidity. Information based on standard specification equipment unless otherwise stated.

50 HZ FREQUENCY **DIESEL FUEL** **WATER-COOLED** **SOUNDPROOF** **CE** CERTIFICATION **QC** ISO 9001 **STACKABLE**

Dimension and Weight

Open Type

Silent Type

DIMENSION		OPEN TYPE	SILENT TYPE
Length (L)	mm	1650	2150
Width (W)	mm	980	930
Height (H)	mm	1300	1100
Dry weight	kg	1150	1380
Fuel tank	L	100	100

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.

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Engine Specifications

ENGINE	YUCHAI®	ENGINE	YUCHAI®
Engine model	YCDV254FHZ-50	Total lubrication system capacity	8 L
Number of cylinders	4	Coolant capacity (with radiator)	12.5 L
Cylinder arrangement	In-Line	Speed stability (%)	≤3%
Cycle	4 stroke	Start type	Electrical
Aspiration	Exhaust gas turbocharging	Maximum exhaust temperature	550 °C
Bore × Stroke	89*100mm	Exhaust gas flow	4.87 m³/min
Displacement	2.5L	Maximum allowed back pressure	10 kPa
Compression ratio	17.5:1	Intake air flow	2.17 m³/min
Prime power/Speed	36.8/1500 (kW/rpm)	Cooling air flow	TBA
Standby power/Speed	40.5/1500 (kW/rpm)	Consumption @ 100% load ESP	11.2 L/H
Speed governor	ECU	Consumption @ 100% load PRP	10.1 L/H
Cooling system (open type)	40℃ tropical radiator	Consumption @ 75% load PRP	7.9 L/H
Cooling system (silent type)	50℃ tropical radiator	Consumption @ 50% load PRP	5.5 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

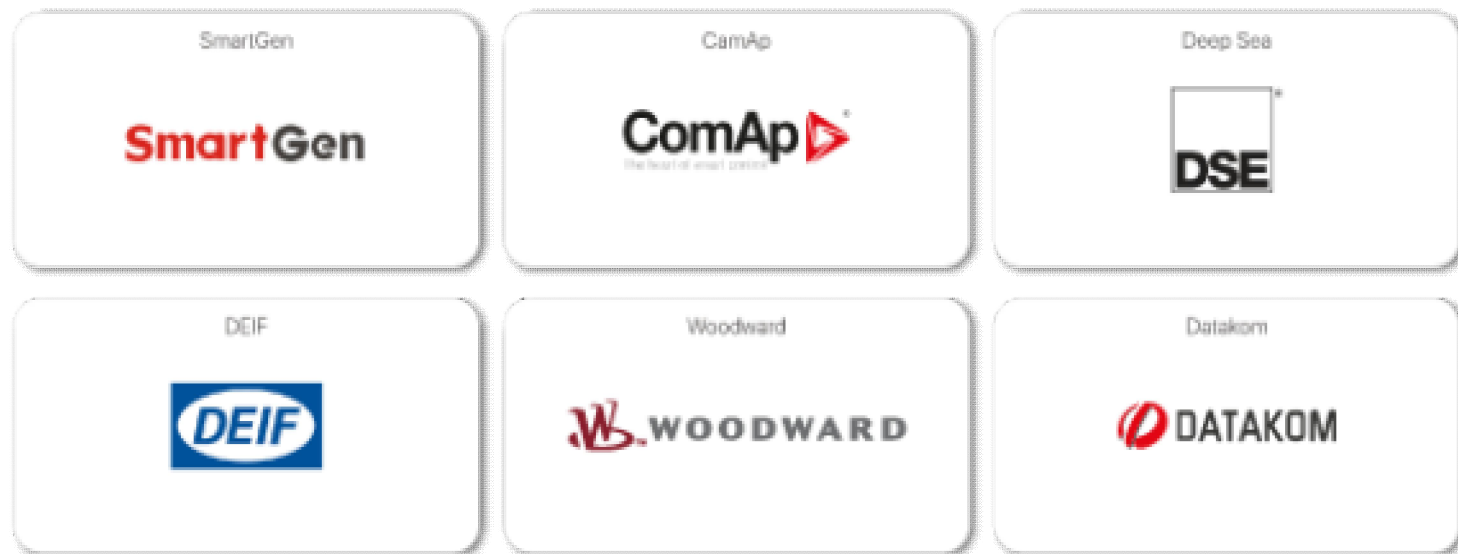| ALTERNATOR		ALTERNATOR	
Exciter type	Brushless, self-excited	Voltage regulation NL-FL	≤±1.0%
Power factor	0.8	Insulation grade	H
Voltage adjust range	≥5%	Protection grade	IP23

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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Controller Brands

SmartGen	ComAp	Deep Sea
SmartGen	ComAp	DSE

DEIF	Woodward	Datakom
DEIF	WOODWARD	DATAKOM

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 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

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