



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, DIN 6271 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		YC100P5		
	Generator specifications		PRP	ESP
	Power	kW/kVA	80/100	88/110
	Rated speed	r.p.m.		1500
	Available voltages	V	380~415	
	Frequency	Hz	50	
	Phase		3-PH	
	Power factor	$\cos \phi$	0.8	
	Fuel cons 100%	L/H	25.4	
	Starting power	kW	5/3.7	
	Recommended battery	Ah	60	
	Number of batteries		2	
	Auxiliary voltage	VDC	24V/12V	



FREQUENCY



DIESEL FUEL



WATER-COOLED



SOUNDPROOF



CERTIFICATION

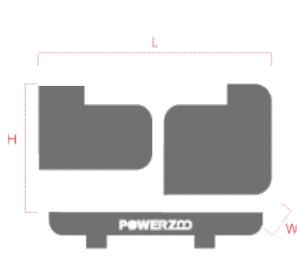


ISO 9001

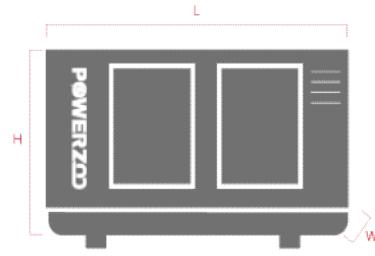


STACKABLE

Dimension and Weight



Open Type



Silent Type

	DIMENSION	OPEN TYPE	SILENT TYPE
	Length (L)	mm	2500
	Width (W)	mm	1050
	Height (H)	mm	1600
	Dry weight	kg	1400
	Fuel tank	L	300

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	YUCHAI®	ENGINE	YUCHAI®
Engine model	YC4A140-D30	Total lubrication system capacity	17 L
Number of cylinders	4	Coolant capacity (with radiator)	27 L
Cylinder arrangement	Vertical, In-Line	Speed stability (%)	≤3%
Cycle	4 stroke	Start type	Electrical
Aspiration	Turbocharged, air-air intercooled	Maximum exhaust temperature	550 °C
Bore x Stroke	108*132mm	Exhaust gas flow	18.4 m³/min
Displacement	4.84L	Maximum allowed back pressure	10 kPa
Compression ratio	17.5:1	Intake air flow	6.6 m³/min
Prime power/Speed	95/1500 (kW/rpm)	Cooling air flow	TBA
Standby power/Speed	105/1500 (kW/rpm)	Consumption @ 100% load ESP	28.2 L/H
Speed governor	ECU	Consumption @ 100% load PRP	25.4 L/H
Cooling system (open type)	40°C tropical radiator	Consumption @ 75% load PRP	20.2 L/H
Cooling system (silent type)	50°C tropical radiator	Consumption @ 50% load PRP	13.9 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
Power factor	0.8
Voltage adjust range	≥5%
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



Controller Brands

SmartGen

SmartGen

ComAp

ComAp 

Deep Sea

 **DSE**

DEIF

 **DEIF**

Woodward

 **WOODWARD**

Datakom

 **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

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