P2250P5

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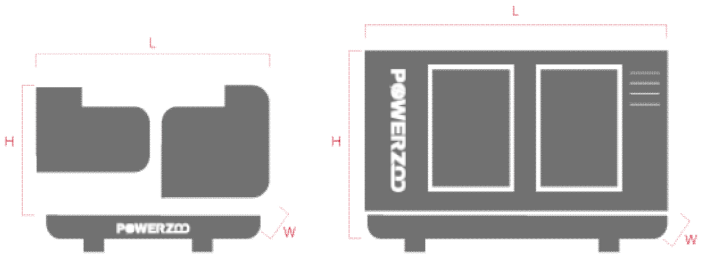
Emergency Standby Power (ESP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utili ty source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.
Prime 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.

GENERATOR MODEL			P2250P5	
	Generator specificationsl		PRP	ESP
	Power	kW/kVA	1800/2250	2000/2500
	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	470	
	Starting power	kW	16.4	
	Recommended battery	Ah	120	
	Number of batteries		4	
	Auxiliary voltage	VDC	2 x 24 Volt Electric	

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	5795	12192
	Width (W)	mm	2200	2438
	Height (H)	mm	2565	2896
Kg	Dry weight	kg	11500	18200
	Fuel tank	L	TBD	2000

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Engine Specifications

ENGINE	Perkins®
Engine model	4016-61TRG3
Number of cylinders	16
Cylinder arrangement	60° Vee
Cycle	Four stroke
Aspiration	Turbocharged
Bore x Stroke	160*190 mm
Displacement	61.123 L
Compression ratio	13:1 nominal
Prime power/Speed	1975/1500 (kW/rpm)
Standby power/Speed	2183/1500 (kW/rpm)
Speed governor	Electronical
Cooling system (open type)	40℃ tropical radiator
Cooling system (silent type)	50℃ tropical radiator

ENGINE	Perkins®
Total lubrication system capacity	213 L
Coolant capacity (with radiator)	260 L
Speed stability (%)	≤5%
Start type	Electrical
Maximum exhaust temperature	475°C
Exhaust gas flow	525 m^3/min
Maximum allowed back pressure	4 kPa
Intake air flow	TBD
Cooling air flow	TBD
Consumption @ 100% load ESP	529 L/H
Consumption @ 100% load PRP	470 L/H
Consumption @ 75% load PRP	344 L/H
Consumption @ 50% load PRP	234 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

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Controller Brands

SmartGen

CamAp

Deep Sea

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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