


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		S140P5	
	Generator specifications	PRP	ESP
	Power	kW/kVA	112/140 120/150
	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	30.5
	Starting power	kW	6
	Recommended battery	Ah	100
	Number of batteries		2
	Auxiliary voltage	VDC	24V



FREQUENCY



DIESEL FUEL



WATER-COOLED



SOUNDPROOF



CERTIFICATION

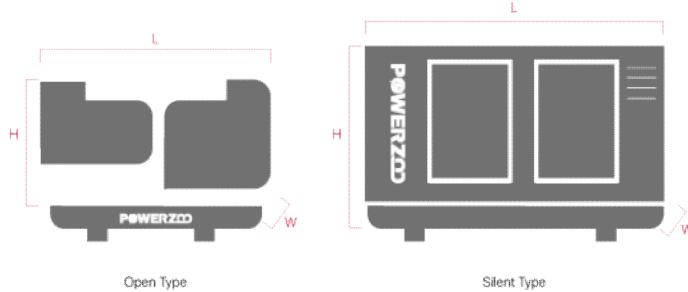


ISO 9001



STACKABLE

Dimension and Weight



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.

	DIMENSION	OPEN TYPE	SILENT TYPE
	Length (L)	mm	2500 2800
	Width (W)	mm	900 900
	Height (H)	mm	1400 1600
	Dry weight	kg	1500 2000
	Fuel tank	L	380 340



Engine Specifications

ENGINE	SDEC®	ENGINE	SDEC®
S140P5	6HTAA6.5-G21	Total lubrication system capacity	17.5 L
Number of cylinders	6	Coolant capacity (with radiator)	9.6 L
Cylinder arrangement	Vertical in-line	Speed stability (%)	≤3%
Cycle	Four stroke	Start type	Electrical
Aspiration	TCA	Maximum exhaust temperature	600°C
Bore x Stroke	105 x 124 mm	Exhaust gas flow	370 L/S
Displacement	6.5 L	Maximum allowed back pressure	10 kPa
Compression ratio	16:01	Intake air flow	156.67L/S
Prime power/Speed	128/1500 (kW/rpm)	Cooling air flow	TBD
Standby power/Speed	141/1500 (kW/rpm)	Consumption @ 100% load ESP	34.0 L/H
Speed governor	E	Consumption @ 100% load PRP	30.5 L/H
Cooling system (open type)	40°C tropical radiator	Consumption @ 75% load PRP	23.0 L/H
Cooling system (silent type)	50°C tropical radiator	Consumption @ 50% load PRP	16.2 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	Voltage regulation NL-FL
Power factor	0.8	Insulation grade
Voltage adjust range	≥5%	Protection grade



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



ComAp



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

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