S400P5

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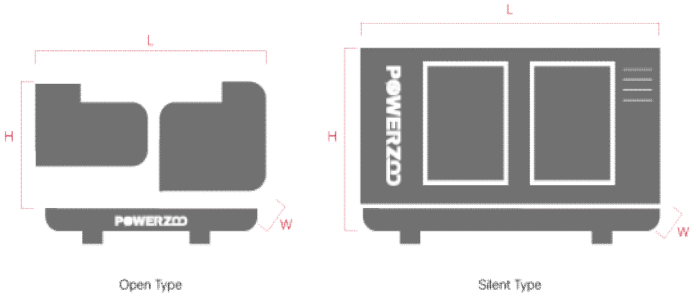
Emergency Standby Power (ESP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utili ty source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.
Prime 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			S400P5	
	Generator specificationsl		PRP	ESP
	Power	kW/kVA	320/400	352/440
	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	96.3	
	Starting power	kW	7.5	
	Recommended battery	Ah	180	
	Number of batteries		2	
	Auxiliary voltage	VDC	24V	

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

Dimension and Weight



DIMENSION			OPEN TYPE	SILENT TYPE
	Length (L)	mm	3315	4200
	Width (W)	mm	1100	1420
	Height (H)	mm	1650	2100
Kg	Dry weight	kg	3200	4200
	Fuel tank	L	380	420

www.powerzoos.com
E-mail: info@powerzoos.com
Tel: +86 13358296663

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Engine Specifications

ENGINE	SDEC®
Engine model	6ETAA12.8-G32
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	TCA
Bore × Stroke	130 × 161 mm
Displacement	12.8 L
Compression ratio	17:01
Prime power/Speed	360/1500 (kW/rpm)
Standby power/Speed	400/1500 (kW/rpm)
Speed governor	ECU
Cooling system (open type)	40℃ tropical radiator
Cooling system (silent type)	50℃ tropical radiator

ENGINE	SDEC®
Total lubrication system capacity	36 L
Coolant capacity (with radiator)	23.2 L
Speed stability (%)	≤3%
Start type	Electrical
Maximum exhaust temperature	600℃
Exhaust gas flow	1245 L/S
Maximum allowed back pressure	10 kPa
Intake air flow	471.67 L/S
Cooling air flow	TBD
Consumption @ 100% load ESP	107.5 L/H
Consumption @ 100% load PRP	96.3 L/H
Consumption @ 75% load PRP	70.5 L/H
Consumption @ 50% load PRP	48.6 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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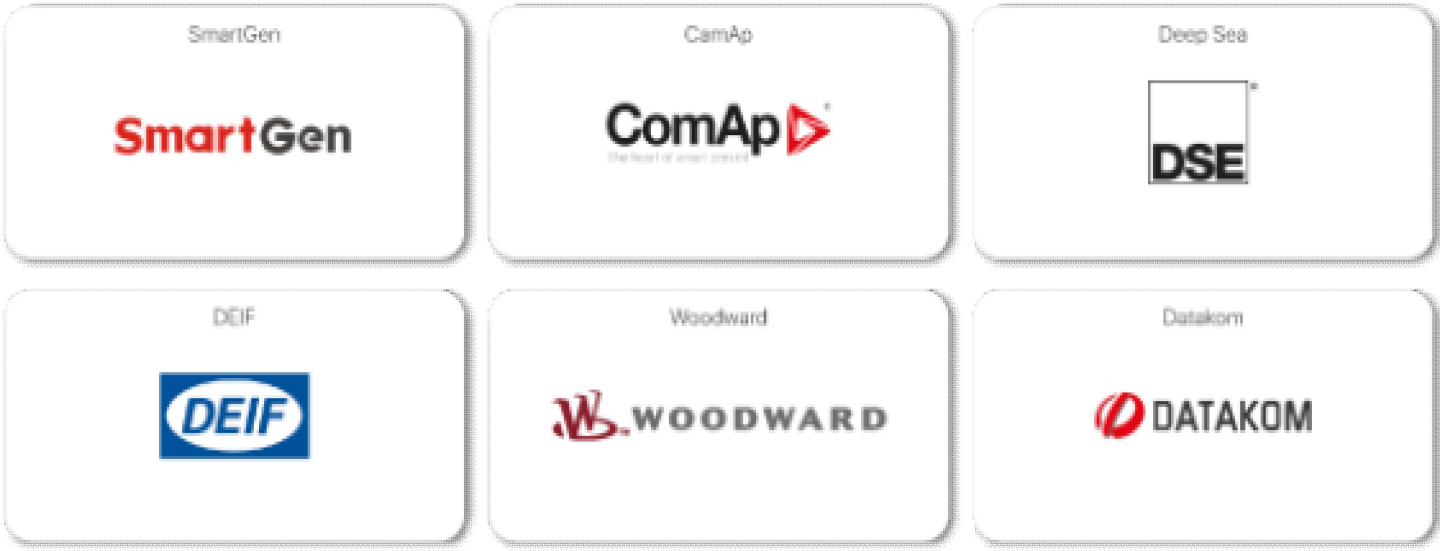
Controller Brands



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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