

Powered by VOLVO[®]

V125P5



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 capability 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

FREQUENCY

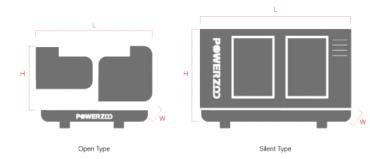
•2014/30/EU Electromagnetic compatibility

•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		V125P5			
	Generator specificationsl		PRP	ESP	
9	Power	kW/kVA	100/125	110/137.5	
0	Rated speed	r.p.m.	1500		
V	Available voltages	V	380~415		
50 60 HZ	Frequency	Hz	50		
3	Phase		З-РН		
A	Power factor	$\cos \phi$	0.8		
٦	Fuel cons 100%	L/H	28.4		
ŝ	Starting power	kW	3.1		
	Recommended battery	Ah	80		
	Number of batteries		2		
	Auxiliary voltage	VDC	12V		

Dimension and Weight



	DIMENSION		OPEN TYPE	SILENT TYPE
心品	Length (L)	mm	TBD	TBD
	Width (W)	mm	TBD	TBD
	Height (H)	mm	TBD	TBD
Kg	Dry weight	kg	TBD	TBD
	Fuel tank	L	TBD	TBD

ISO 9001

STACKABLE

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.



PØWERZOD



Engine Specifications

ENGINE	VOLVO®	ENGINE	VOLVO [®]
Engine model	TAD532GE	Total lubrication system capacity	13 L
Number of cylinders	4	Coolant capacity (with radiator)	7.2 L
Cylinder arrangement	Vertical in-line	Speed stability (%)	≪5%
Cycle	Four stroke	Start type	Electrical
Aspiration	Turbocharged and air- to-air charge cooled	Maximum exhaust temperature	507 ℃
Bore × Stroke	108*130 mm	Exhaust gas flow	21.2 m³/min
Displacement	4.76 L	Maximum allowed back pressure	5 kPa
Compression ratio	18:1	Intake air flow	5.7 m³/min
Prime power/Speed	113/1500 (kW/rpm)	Cooling air flow	2.9 m³/s
Standby power/Speed	125/1500 (kW/rpm)	Consumption @ 100% load ESP	31.8 L/H
Speed governor	ECU	Consumption @ 100% load PRP	28.4 L/H
Cooling system (open type)	$40^\circ\!\!\mathrm{C}$ tropical radiator	Consumption @ 75% load PRP	27.9 L/H
Cooling system (silent type)	$50^\circ\!\!\mathbb{C}$ tropical radiator	Consumption @ 50% load PRP	28.3 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	O.8	Insulation grade	н
Voltage adjust range	≥5%	Protection grade	IP23



Options:

- •AREP/PMG/EBS
- •Air inlet filter (5% deration)
- •louver (5% deration)
- •Space heater

•Stator sensor

Digital AVR

•PT100

- •Severe environmental impregnation
- •Terminal box IP44

Rotor sensorDouble bearing

•Drip proof cover



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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	٠	•	•	•
Stop failure/Start failure	•	•	•	•
Overspeed/Underspeed	•	•	•	•

• Standard O Optional

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Emergency stopIIIIHigh/Low visageIIIIHigh/Low visageIIIIShart-circuitIIIIIIncarrect phase sequenceIIIIIInverse powerIIIIIIOverloadIIIIIIITotal hour counterIII <th>OPTIONAL CONFIGURATION</th> <th>Stand-alone Basic</th> <th>Stand-alone Advanced</th> <th>Synchronization Basic</th> <th>Synchronization Advanced</th>	OPTIONAL CONFIGURATION	Stand-alone Basic	Stand-alone Advanced	Synchronization Basic	Synchronization Advanced
High/Low voltage••••Short-circuit•••••Incorrect phase sequence•••••Inverse power•••••Overload••••••Total hour counter••••••Kilowatt meter•••••••Starts valid counters••• <t< td=""><td>Emergency stop</td><td>•</td><td>•</td><td>•</td><td>•</td></t<>	Emergency stop	•	•	•	•
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Inverse powerInverse powerInvers	Short-circuit	•	•	•	•
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Total hour counterImage: starts valid countersImage: start valid countersImage: starts valid countersImage: starts valid countersImage: start	Inverse power	•	•	•	•
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External start••••Start inhibition······Mains failure start··	Software for PC	•	•	•	•
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Fuel transfer controlImage: controlImage: controlImage: controlEngine temperature controlImage: controlImage: controlImage: controlProgrammable alarmsImage: controlImage: controlImage: controlGenset start function in test modeImage: controlImage: controlImage: controlProgrammable outputsImage: controlImage: controlImage: controlMultilingualImage: controlImage: controlImage: controlMultilingualImage: controlImage: controlImage: controlModbus IPImage: controlImage: controlImage: controlJ1939Image: controlImage: controlImage: controlSynchronizationImage: controlImage: controlImage: controlFuel level (%)Image: controlImage: co	Mains failure start	•	•	•	•
Engine temperature controlImage: start function in test modeImage: start func	Pre-heating engine control	•	•	•	•
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Genset start function in test mode•••••••••Programmable outputs••••••••Multilingual••••••••••••RS485•••••••••••••••Modbus IP•••••••••••••••J1939•••••••••••••••Synchronization••••••••••••Fuel level (%)••••••••Low water level••••••••GSM/GPRS modem••••••••	Engine temperature control	•	•	•	•
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MultilingualImage: sector of the	Genset start function in test mode	•	•	•	•
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GSM/GPRS modem 0 0 0	Fuel level (%)	0	0	0	0
	Low water level	0	0	0	0
Remote screen o o o	GSM/GPRS modem	0	0	0	0
	Remote screen	0	Ο	0	0

• Standard O Optional



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