

P%WERZOD



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

FREQUENCY

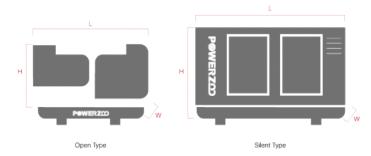
•2014/30/EU Electromagnetic compatibility

•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		D100P5			
	Generator specificationsl		PRP	ESP	
G	Power	kW/kVA	80/100	88/110	
\bigcirc	Rated speed	r.p.m.	1500		
V	Available voltages	V	380~415		
50 60 HZ	Frequency	Hz	50		
3	Phase		3-PH		
9	Power factor	$\cos \phi$	0.8		
٦	Fuel cons 100%	L/H	24.2		
<u>in</u>	Starting power	kW	6		
	Recommended battery	Ah	1	80	
	Number of batteries			2	
	Auxiliary voltage	VDC	2	24V	

Dimension and Weight



	DIMENSION		OPEN TYPE	SILENT TYPE
0 日	Length (L)	mm	2200	2900
1	Width (W)	mm	1040	1100
	Height (H)	mm	1560	1620
Kg	Dry weight	kg	TBD	TBD
K	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.





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Engine Specifications

ENGINE	DEUTZ®	ENGINE	DEUTZ [®]
Engine model	BF4M1013EC G1	Total lubrication system capacity	11 L
Number of cylinders	4	Coolant capacity (with radiator)	7.4 L
Cylinder arrangement	Vertical in-line	Speed stability (%)	≤±5%
Cycle	Four stroke	Start type	Electrical
Aspiration	Turbocharged	Maximum exhaust temperature	560°C
Bore × Stroke	108*130 mm	Exhaust gas flow	1102 m³/h
Displacement	4.76 L	Maximum allowed back pressure	30 mbar
Compression ratio	19:1	Intake air flow	365 m³/h
Prime power/Speed	97/1500 (kW/rpm)	Cooling air flow	6100 m³/h
Standby power/Speed	102/1500 (kW/rpm)	Consumption @ 100% load ESP	TBD
Speed governor	ECU	Consumption @ 100% load PRP	24.2 L/H
Cooling system (open type)	40°C tropical radiator	Consumption @ 75% load PRP	18 L/H
Cooling system (silent type)	50°C tropical radiator	Consumption @ 50% load PRP	12.2 L/H

Features:

Diesel engine4-stroke cycleWater-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	0.8	Insulation grade	н
Voltage adjust range	≥5%	Protection grade	IP23



Options:

- •AREP/PMG/EBS
- •Air inlet filter (5% deration)
- low on (E9/ denotion)
- •louver (5% deration)
- •Space heater

•Stator sensor •PT100

- Digital AVR
- •Severe environmental impregnation
 - ●Te
- Double bearingDrip proof cover

•Rotor sensor

•Terminal box IP44



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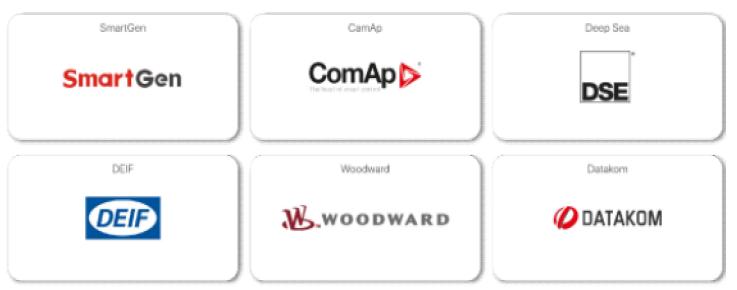
P#WERZOD



D100P5

Powered by DEUTZ[®]

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	•	•	•	•

lacksquare Standard \hdotsquare Optional









Emergency stopIIIIIIHigh/Low virtageIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII </th <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••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• <td>Emergency stop</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	Emergency stop	•	•	•	•
Shark-circuitIncorrect phase sequenceIncorrect phase sequenceMains failure startIncorrect phase sequence set start function in test modeIncorrect phase sequenceIncorrect phase sequence<	High/Low frequency	•	•	•	•
Incorrect phase sequence•••••Inverse power••••••Overload•••••••Total hour counter••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• <td>High/Low voltage</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	High/Low voltage	•	•	•	•
Inverse powerInverse powerInvers	Short-circuit	•	•	•	•
OverloadImage: start sector of the sector of th	Incorrect phase sequence	•	•	•	•
Total hour counterImage: starts valid countersImage: start valid counters<	Inverse power	•	•	•	•
Kilowatt meterIIIIStarts valid countersIIIIMaintenanceIIIIUSBIIIIISoftware for PCIIIIAlarm historyIIIIIExternal startIIIIIStart inhibitionIIIIIPre-heating engine controlIIIIIFuel transfer controlIIIIIProgrammable alarmsIIIIIMultingualIIIIIIMudus IPIIIIIIJ1939IIIIIISynchronizationIIIIIIFuel level (%)IIIIIIFuel level [solutionIIIIIISynchronizationIIIIIIIFuel level [solutionIIIIIIIFuel level [solutionIIIIIIISynchronizationIIIIIIIIFuel level [solutionIIIIIIIIISynchronizationIII <td>Overload</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	Overload	•	•	•	•
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USBImage: start s	Starts valid counters	•	•	•	•
Software for PCImage: startImage: star	Maintenance	•	•	•	•
Alarm historyImage: start startImage: start start startImage: start sta	USB	•	•	•	•
External startImage: start	Software for PC	•	•	•	•
Start inhibitionImage: start inhibiti	Alarm history	•	•	•	•
Mains failure startImage:	External start	•	•	•	•
Pre-heating engine controlImage: state of the	Start inhibition	•	•	•	•
Fuel transfer controlImage: start control <th< td=""><td>Mains failure start</td><td>•</td><td>•</td><td>•</td><td>•</td></th<>	Mains failure start	•	•	•	•
Engine temperature controlImage: start function in test modeImage: start func	Pre-heating engine control	•	•	•	•
Programmable alarms••••Genset start function in test mode••••Programmable outputs•••••Multilingual•••••RS485••••••Modbus IP••••••J1939••••••Synchronization••••••Fuel level (%)••••••GSM/GPRS modem•••••••	Fuel transfer control	•	•	•	•
Genset start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeProgrammable outputsImage: start function in test modeImage: start function in test modeImage: start function in test modeMultilingualImage: start function in test modeImage: start function in test modeImage: start function in test modeRS485Image: start function in test modeImage: start function in test modeImage: start function in test modeMains synchronizationImage: start function in test modeImage: start function in test modeImage: start function in test modeFuel level (%)Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeGSM/GPRS modemImage: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test mode	Engine temperature control	•	•	•	•
Programmable outputsImage: second	Programmable alarms	•	•	•	•
MultilingualImage: sector of the	Genset start function in test mode	•	•	•	•
RS485Image: state of the state o	Programmable outputs	•	•	•	•
Modbus IPImage: Constraint of the second	Multilingual	•	•	•	•
J1939••••SynchronizationII•••Mains synchronizationIII••Fuel level (%)000000GSM/GPRS modem000000	RS485		•	•	•
SynchronizationImage: Synchronization	Modbus IP		•	•	•
Mains synchronizationImage: Second synchronizationImage: Second synchronizationFuel level (%)Image: Second synchronizationImage: Second synchronizationImage: Second synchronizationLow water levelImage: Second synchronizationImage: Second synchronizationImage: Second synchronizationSSM/GPRS modemImage: Second synchronizationImage: Second synchronizationImage: Second synchronization	J1939		•	•	•
Fuel level (%)000Low water level0000GSM/GPRS modem0000	Synchronization			•	•
Low water level0000GSM/GPRS modem0000	Mains synchronization				•
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	0	0	0

• Standard O Optional



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