# Kubota.

### K15P5 Powered by Kubota<sup>®</sup>



### 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,  $25\,^\circ$  C, 30% relative humidity. Information based on standard specification equipment unless otherwise stated.

GENERATOR MODEL			K15P5	
	Generator specificationsl		PRP	ESP
G	Power	kW/kVA	12/15	14.4/18
$\bigcirc$	Rated speed	r.p.m.	1500 380~415 50 3-PH 0.8	
V	Available voltages	V		
50 60 HZ	Frequency	Hz		
3	Phase			
A	Power factor	$\cos \phi$		
٦	Fuel cons 100%	L/H	Э	.95
	Starting power	kW		1.4
árð.	Recommended battery	Ah		60

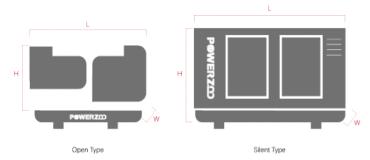
P&WERZOD

Number of batteries

CERTIFICATION

Auxiliary voltage

### Dimension and Weight



	DIMENSION		OPEN TYPE	SILENT TYPE
③ 迅	Length (L)	mm	1500	1800
	Width (W)	mm	730	750
	Height (H)	mm	1170	850
Kg	Dry weight	kg	620	740
K	Fuel tank	L	50	50

VDC

**NC** 

ISO 9001

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**

P\$WERZO

ENGINE	Kubota <sup>®</sup>	ENGINE	Kubota <sup>®</sup>
Engine model	D1803-E2BG	Total lubrication system capacity	N/A
Number of cylinders	3	Coolant capacity (with radiator)	5.8 L
Cylinder arrangement	Vertical	Speed stability (%)	≤5%
Cycle	Four stroke	Start type	Electrical
Aspiration	Naturally Aspirated	Maximum exhaust temperature	550°C
Bore × Stroke	87*102.4 mm	Exhaust gas flow	4.12 m³/min
Displacement	1.826 L	Maximum allowed back pressure	7.07 kPa
Compression ratio	20.2 : 1	Intake air flow	1.96 m³/min
Prime power/Speed	15.5/1500 (kW/rpm)	Cooling air flow	N/A
Standby power/Speed	17/1500 (kW/rpm)	Consumption @ 100% load ESP	4.27 L/H
Speed governor	Mechanical	Consumption @ 100% load PRP	3.95 L/H
Cooling system (open type)	40°C tropical radiator	Consumption @ 75% load PRP	3.03L/H
Cooling system (silent type)	50°C tropical radiator	Consumption @ 50% load PRP	2.10 L/H



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)
- •louver (5% deration)
- •Space heater
- Digital AVR
- •Severe environmental impregnation
- •Stator sensor
- •PT100

- •Double bearing
- •Drip proof cover
- •Terminal box IP44



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# SmartGen SmartGen CamAp Deep Sea DEF Woodward Datakom 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	•	•	•	•

lacksquare Standard  $\hfill \bigcirc$  Optional



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# P\$WERZOD

Emergency stopHigh/Low voltageHigh/Low voltageShort-circuitIncorrect phase sequenceInverse powerOverloadTotal hour counter<	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	•	•	•	•
Short-circuitIncorrect phase sequenceInInInIncorrect phase sequenceInInInInInverse powerInInInInOverloadInInInInInOverloadInInInInInTotal hour counterInInInInInKilowatt meterInInInInInStarts valid countersInInInInInMaintenanceInInInInInUSBInInInInInInSoftware for PCInInInInInAlarm historyInInInInInExternal startInInInInInYen heating engine controlInInInInInFuel transfer controlInInInInInFuel transfer controlInInInInInFuel transfer controlInInInInInProgrammable alarmsInInInInInMultilingualInInInInInSynchronizationInInInInInMultilingualInInInInInSynchronizationInInInInInFuel level (%)InInInInIn	High/Low frequency	•	•	•	•
Incorrect phase sequenceIIIIIInverse powerIIIIIOverloadIIIIIITotal hour counterIIIIIIKilowatt meterIIIIIIIStarts valid countersIII	High/Low voltage	•	•	•	•
Inverse powerInverse powerInvers	Short-circuit	•	•	•	•
Dverload••••Total hour counter•••••Kiowatt meter•••••Starts valid counters•••••Maintenance••••••USB•••••••Software for PC•••••••Alarn history•••••••External start•••	Incorrect phase sequence	•	•	•	•
Total hour counterImage: starts valid countersImage: starts valid countersFuel Irend Frend Irend Irend Iren	Inverse power	•	•	•	•
Kilowatt meterIIIIStarts valid countersIIIIMaintenanceIIIIUSBIIIIISoftware for PCIIIIIAlarm historyIIIIIExternal startIIIIIStart inhibitionIIIIIPre-heating engine controlIIIIIFuel transfer controlIIIIIProgrammable alarmsIIIIIIMultilingualIIIIIIIModus IPIIIIIIIISynchronizationIIIIIIIIFuel level (%)III<	Overload	•	•	•	•
Starts valid countersImage: starts valid countersImage: starts valid countersImage: starts valid countersMaintenanceImage: startImage: startImage: startImage: startSoftware for PCImage: startImage: startImage: startImage: startAlarm historyImage: startImage: startImage: startImage: startStarts inhibitionImage: startImage: startImage: startImage: startMains failure startImage: startImage: startImage: startImage: startPre-heating engine controlImage: startImage: startImage: startImage: startFuel transfer controlImage: startImage: startImage: startImage: startProgrammable alarmsImage: startImage: startImage: start start startImage: start start startImage: start start startMultingualImage: startImage: startImage: start start startImage: start start startImage: start start startMuddus IPImage: startImage: startImage: start start startImage: start start startImage: start start startImage: start start startMultingualImage: start start startImage: start start startImage: start start startImage: start start start startMultingualImage: start start start startImage: start s	Total hour counter	•	•	•	•
MaintenanceImage: section of the section	Kilowatt meter	•	•	•	•
USBImage: start s	Starts valid counters	•	•	•	•
Software for PCImage: startImage: star	Maintenance	•	•	•	•
Alarm historyImage: start start startImage: start	USB	•	•	•	•
External start••••••••Start inhibition·••·••·••Mains failure start·••·••·••Pre-heating engine control·••·••·••Fuel transfer control·••·••·••Fugine temperature control·••·••·••Programmable alarms·••·••·••Genset start function in test mode·••·••·••Programmable outputs·••·••·••Multilingual·••·••·••RS485·••·••·••J1939·••·••·••Synchronization·••·••·••Fuel level (%)·•·•·••Fuel level (%)·•·•·••StM/GPRS modem·•·•·•StM/GPRS modem·•·•·•	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 (%)••••••••Low water 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 modeImage: start function in test modeRS485Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start function in test modeImage: start function in test modeJ1939Image: start function in test modeImage: start function in test modeImage: start fu	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: Marcine and M	Multilingual	•	•	•	•
J1939••••SynchronizationIIIIMains synchronizationIIIIFuel level (%)0000Low water level0000GSM/GPRS modem0000	RS485		•	•	•
SynchronizationImage: synchronizationImage: synchronizationImage: synchronizationImage: synchronizationImage: synchronizationImage: synchronizationFuel level (%)000000Low water level000000GSM/GPRS modem000000	Modbus IP		•	•	•
Mains synchronizationImage: Constraint of the synchronizationImage: Constraint of the synchronizationFuel level (%)Image: Constraint of the synchronizationImage: Constraint of the synchronizationLow water levelImage: Constraint of the synchronizationImage: Constraint of the synchronizationGSM/GPRS modemImage: Constraint of the synchronizationImage: Constraint of the synchronization	J1939		•	•	•
Fuel level (%)000Low water level0000GSM/GPRS modem0000	Synchronization			•	•
Low water level000GSM/GPRS modem0000	Mains synchronization				•
GSM/GPRS modem o o o	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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