

VK11.6-1P

DIESEL GENERATOR SET / SILENT



11.6

kVA

STANDBY POWER

10.6

kVA

PRIME POWER

50

Hz

FREQUENCY

240

V

VOLTAGE

Kubota D1703-E2BG

1 phase · 1.0 PF · 1500 rpm

Configuration	Dimensions (L × W × H)	Dry weight	Fuel tank
Silent set	2100 × 1050 × 1520 mm	1027 kg	137 L

GENERAL CHARACTERISTICS

VK14.5-5 · 50 Hz · 1 Phase

RATED PERFORMANCE

Standby Power (kVA)	11.6
Standby Power (kW)	11.6
Prime Power (kVA)	10.6
Prime Power (kW)	10.6
Power Factor (Cos Phi)	1
Diesel Engine	D1703-E2BG
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	1
Standard Voltage (V)	240
Available Voltages (V)	/

POWER DEFINITIONS

STANDBY POWER (ESP)

Available for supplying emergency power during a utility interruption. The stated rating follows ISO 8528-1.

PRIME POWER (PRP)

Available for an unlimited number of annual operating hours in variable-load applications, in accordance with ISO 8528-1.

TERMS OF USE

Nominal power is stated at 25 °C inlet-air temperature, 100 kPa barometric pressure (100 m A.S.L.) and 30% relative humidity.

RATED OUTPUT CURRENT BY VOLTAGE

Rated voltage	Standby current (11.6 kVA)	Prime current (10.6 kVA)
240 V	49.0 A	44.0 A

ENGINE DATA

Kubota D1703-E2BG

GENERAL ENGINE DATA

Engine brand	Kubota
Engine model	D1703-E2BG
Engine type	4-stroke diesel
Governor type	Mechanical
Injection type	Direct
Aspiration type	Naturally Aspirated
Cylinders and arrangement	3-L

FUEL CONSUMPTION

100% load ESP	5.22 L/h
100% load PRP	4.7 L/h
75% load PRP	/
50% load PRP	2.37 L/h

AIR SYSTEM

Intake air flow	22 L/s
Cooling air flow	/

GENERAL ENGINE DATA

Bore × stroke	87 × 92.4 mm
Displacement	1.6 L
Cooling system	Water-cooled
Lube oil consumption at full load	0.5%-1% of fuel consumption
Compression ratio	23:1
Air filter	Dry

EXHAUST SYSTEM

Maximum exhaust temperature	550 °C
Exhaust gas flow	48.5 L/s
Maximum allowed back pressure	7 kPa

STARTING SYSTEM

Starting power	1.4 kW
Recommended battery	60 Ah
Number of batteries	1
Auxiliary voltage	12 VDC

OIL AND COOLING CAPACITIES

Engine oil capacity	7.6 L
Total coolant capacity	6 L

ALTERNATOR DATA

1-phase · Brushless · Electronic AVR

GENERAL ALTERNATOR DATA

Number of phases	1
Power factor (Cos Phi)	1
Poles	4
Winding connections (standard)	Star-series
Insulation	H class
Enclosure (according to IEC 34-5)	IP23
Excitation system	Self-excited, brushless
Voltage regulator	AVR (Electronic)
Number of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (vacuum impregnation)

CONTROL MODULE

Deep Sea DSE6120



SINGLE GEN-SET CONTROL

AMF CONTROL

Automatic mains failure controller for one gen-set, with one-phase mains and generator monitoring, flexible I/O and electronic or non-electronic engine versions.

CORE FUNCTIONS

01	Automatic transfer between mains and generator power	05	Event log for 10 events plus engine-hours counter
02	1-phase mains and generator voltage monitoring	06	6 digital inputs and 3 analog sender inputs
03	Generator current monitoring and protection	07	Six outputs; configuration depends on the engine version
04	CAN-engine or magnetic-pick-up/alternator-sensing versions	08	PC/front-panel configuration; optional IP65 front gasket

CONNECTIVITY

DSE6120 · Interfaces, sensing and I/O

USB CAN / MPU 6 INPUTS 6 OUTPUTS

COMMUNICATION AND MONITORING FEATURES

01	USB connects to DSE Configuration Suite for controller setup	05	Six digital inputs and three analog senders support field signals
02	Choose CAN-engine or magnetic-pick-up/alternator-sensing version	06	Four outputs are configurable on MPU/alternator version; six on CAN
03	DSE6120 includes dedicated 1-phase mains sensing	07	Remote-start input, test mode and configurable timers are included
04	1-phase generator voltage and current monitoring is built in		

ORDERING OPTIONS

CAN ENGINE VERSION · MPU / ALTERNATOR VERSION

Engine sensing and output configuration depend on the selected controller variant.