

VW4125-6

DIESEL GENERATOR SET / SILENT



4125

kVA

STANDBY POWER

3750

kVA

PRIME POWER

60

Hz

FREQUENCY

440/254

V

VOLTAGE

Weichai 16M55D3600E311

3 phase · 0.8 PF · 1800 rpm

CONFIGURATION COMPARISON

Configuration	Dimensions (L × W × H)	Dry weight	Fuel tank
Container	12192 × 2438 × 2896 mm	31850 kg	/

Performance, engine, alternator and controller data are common to both configurations.

GENERAL CHARACTERISTICS

VW4125-6 · 60 Hz · 3 Phase

RATED PERFORMANCE

Standby Power (kVA)	4125
Standby Power (kW)	3300
Prime Power (kVA)	3750
Prime Power (kW)	3000
Power Factor (Cos Phi)	0.8
Diesel Engine	16M55D3600E 311
Frequency (Hz)	60
Rated Speed (rpm)	1800
Phase	3
Standard Voltage (V)	440/254
Available Voltages (V)	220/127 or 480/277

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 (4125 kVA)	Prime current (3750 kVA)
220/127 V	10825.3 A	9841.2 A
440/254 V	5412.7 A	4920.6 A
480/277 V	4961.6 A	4510.5 A

ENGINE DATA

Weichai 16M55D3600E311

GENERAL ENGINE DATA

Engine brand	Weichai
Engine model	16M55D3600E311
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharged and intercooled
Cylinders and arrangement	16-V

FUEL CONSUMPTION

100% load ESP	843.4 L/h
100% load PRP	755.1 L/h
75% load PRP	557.2 L/h
50% load PRP	384.2 L/h

AIR SYSTEM

Intake air flow	3862.7 L/s
Cooling air flow	/

GENERAL ENGINE DATA

Bore × stroke	180 × 215 mm
Displacement	87.5 L
Cooling system	Water-cooled
Lube oil consumption at full load	0.5%-1% of fuel consumption
Compression ratio	16.5:1
Air filter	Dry

EXHAUST SYSTEM

Maximum exhaust temperature	740 °C
Exhaust gas flow	4018 L/s
Maximum allowed back pressure	5 kPa

STARTING SYSTEM

Starting power	2x10 kW
Recommended battery	200 Ah
Number of batteries	4
Auxiliary voltage	24 VDC

OIL AND COOLING CAPACITIES

Engine oil capacity	500 L
Total coolant capacity	261.3 (Engine only) L

ALTERNATOR DATA

3-phase · Brushless · Electronic AVR

GENERAL ALTERNATOR DATA

Number of phases	3
Power factor (Cos Phi)	0.8
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 three-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	3-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 3-phase mains sensing | 07 | Remote-start input, test mode and configurable timers are included |
| 04 | 3-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.