

VFP660-5

DIESEL GENERATOR SET / SILENT



660

kVA

STANDBY POWER

600

kVA

PRIME POWER

50

Hz

FREQUENCY

400/230

V

VOLTAGE

FPT CR16TE1W.S550

3 phase · 0.8 PF · 1500 rpm

CONFIGURATION COMPARISON

Configuration	Dimensions (L × W × H)	Dry weight	Fuel tank
Silent set	4750 × 1450 × 2500 mm	5730 kg	1000 L

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

GENERAL CHARACTERISTICS

VFP660-5 · 50 Hz · 3 Phase

RATED PERFORMANCE

Standby Power (kVA)	660
Standby Power (kW)	528
Prime Power (kVA)	600
Prime Power (kW)	480
Power Factor (Cos Phi)	0.8
Diesel Engine	CR16TE1W.S5 50
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

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 (660 kVA)	Prime current (600 kVA)
380/220 V	1002.8 A	911.6 A
400/230 V	952.6 A	866.0 A
415/240 V	918.2 A	834.7 A

ENGINE DATA

FPT CR16TE1W.S550

GENERAL ENGINE DATA

Engine brand	FPT
Engine model	CR16TE1W.S550
Engine type	4-stroke diesel
Governor type	Electronic
Injection type	Direct
Aspiration type	turbo intercooler
Cylinders and arrangement	6-L

FUEL CONSUMPTION

100% load ESP	122.7 L/h
100% load PRP	109.8 L/h
75% load PRP	87.8 L/h
50% load PRP	55.8 L/h

AIR SYSTEM

Intake air flow	676.7 L/s
Cooling air flow	/

GENERAL ENGINE DATA

Bore × stroke	141 × 170 mm
Displacement	15.9 L
Cooling system	Water-cooled
Lube oil consumption at full load	< 0.2% of fuel consumption
Compression ratio	16.5:1
Air filter	Dry

EXHAUST SYSTEM

Maximum exhaust temperature	557 °C
Exhaust gas flow	9172.8 L/s
Maximum allowed back pressure	7 kPa

STARTING SYSTEM

Starting power	7.8 kW
Recommended battery	120 Ah
Number of batteries	2
Auxiliary voltage	24 VDC

OIL AND COOLING CAPACITIES

Engine oil capacity	32 L
Total coolant capacity	25.5 (engine) 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.