

VYU225-5

DIESEL GENERATOR SET / SILENT



225

kVA

STANDBY POWER

200

kVA

PRIME POWER

50

Hz

FREQUENCY

400/230

V

VOLTAGE

Yuchai YCMK10TAA285-G20

3 phase · 0.8 PF · 1500 rpm

CONFIGURATION COMPARISON

Configuration	Dimensions (L × W × H)	Dry weight	Fuel tank
Open set	2600 × 1050 × 1700 mm	2090 kg	370 L
Canopy set	3600 × 1250 × 1950 mm	2620 kg	370 L

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

GENERAL CHARACTERISTICS

VYU225-5 · 50 Hz · 3 Phase

RATED PERFORMANCE

Standby Power (kVA)	225
Standby Power (kW)	180
Prime Power (kVA)	200
Prime Power (kW)	160
Power Factor (Cos Phi)	0.8
Diesel Engine	YCMK10TAA28 5-G20
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	415/240 or 380/220

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 (225 kVA)	Prime current (200 kVA)
380/220 V	341.9 A	303.9 A
400/230 V	324.8 A	288.7 A
415/240 V	313.0 A	278.2 A

ENGINE DATA

Yuchai YCMK10TAA285-G20

GENERAL ENGINE DATA

Engine brand	Yuchai
Engine model	YCMK10TAA285-G20
Engine type	4-stroke diesel
Governor type	Electronic
Injection type	Direct
Aspiration type	Turbocharged, air-air intercooled
Cylinders and arrangement	6-L

FUEL CONSUMPTION

100% load ESP	51.87 L/h
100% load PRP	46.7 L/h
75% load PRP	34.9 L/h
50% load PRP	23.5 L/h

AIR SYSTEM

Intake air flow	223.3 L/s
Cooling air flow	/

GENERAL ENGINE DATA

Bore × stroke	123 × 145 mm
Displacement	10.34 L
Cooling system	Water-cooled
Lube oil consumption at full load	0.5%-1% of fuel consumption
Compression ratio	16.8:1
Air filter	Dry

EXHAUST SYSTEM

Maximum exhaust temperature	550 °C
Exhaust gas flow	560 L/s
Maximum allowed back pressure	10 kPa

STARTING SYSTEM

Starting power	9 kW
Recommended battery	120 Ah
Number of batteries	2
Auxiliary voltage	24 VDC

OIL AND COOLING CAPACITIES

Engine oil capacity	30 L
Total coolant capacity	65 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
- 02

Choose CAN-engine or magnetic-pick-up/alternator-sensing version
- 03

DSE6120 includes dedicated 3-phase mains sensing
- 04

3-phase generator voltage and current monitoring is built in
- 05

Six digital inputs and three analog senders support field signals
- 06

Four outputs are configurable on MPU/alternator version; six on CAN
- 07

Remote-start input, test mode and configurable timers are included

ORDERING OPTIONS

CAN ENGINE VERSION · MPU / ALTERNATOR VERSION

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