

Offshore Portable ZONE 2 Diesel driven Power Generator

Model: ZG060C



www.zone2pro.com

The ZG060C is a modular standalone generator unit rated up to 60kVA designed for Zone 2 Hazardous area and is ATEX compliant packaged in a certified DNVGL-ST-E271 offshore lifting container . The ZG060C designed for easy and straight forward operations with multiple opening access to ease maintenance works. The unit operates in ambient temperature of -20dego C TO + 55dego C, suitable for both warm and cold weather operations. Unit sound pressure level (SPL) are below 85dba@1m distance. The unit is witness and verified by DNVGL to ATEX 94/9/EC Ex Group IIB Category 3G T3.

SPECIFICATION

- Engine: CUMMINS 6BT5.9
- Starting System: 24VDC Electrical Starter
- Starting Backup: External Rechargeable System
- Fuel Tank: 320 liter (14hours on full load)
- AC Alternator: Mecc Alte (60kVA) IP 55 Dual Bearing
- E-Stop: Local, 2 units (Each on both side)
- Overall Dimension (mm): 3774 (L) x 1912 (W) x 2250(H)
- Dry Weight: 3,912 kg
- Wet Weight: 4,152 kg
- Lifting Frame: DNV GL 2.7-1, EN12079-1:2006
- Switchable frequency (Hz): 50 & 60
- Enhanced integral set-mounted radiator systems, designed and tested for rated ambient temperature.

SAFETY FEATURES

- Dual E-Stop both side of unit
- Alarm Beacon and Sounder both side of unit

ENGINE PROTECTION

- Overspeed shut down
- Low oil pressure warning and shut down
- High coolant temperature warning and shut down
- High oil temperature warning (some models)
- Low coolant level warning or shut down
- Low coolant temperature warning
- High and low battery voltage warning
- Weak battery warning
- Dead battery shut down
- Fail to start (over crank) shut down
- Fail to crank shut down
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication

GENERATOR FEATURES

- Engine real-time monitoring
- 3-phase generator sensing and protection
- Generator current and power monitoring (kW, kvar, kVA, pf)
- kW overload alarm
- Over current protection alarm
- Fuel level alarms
- Load monitoring
- Battery Monitoring
- Over current and short-circuit shut down
- Single and three phase fault regulation
- Over and under voltage shut down
- Over and under frequency shut down
- Overload warning with alarm contact
- Reverse power and reverse Var shut down
- Excitation fault

ENGINE DATA

- DC voltage
- Lube oil pressure
- Coolant temperature
- Lube oil temperature (some models)
- Engine speed

ALTERNATOR DATA

- Line-to-Line and Line-to-Neutral AC volts
- Three phase AC current
- Frequency
- Total and individual phase power factor, kW and kVA

ADDITIONAL FEATURES

- External AC charging to battery
- Direct Single Pole Power Outlet Connection (4 Poles)
- Standby 20A Power Outlet (c/w plug)
- Standby 63A Power Outlet (c/w plug)
- Battery Isolator to prevent battery leakage
- Standby connection for Automatic Transfer Switch (ATS)
- Ease of access for fluids drain
- Diesel Fuel filling easy access
- Drip pan on skid

Fuel Consumption @ 50hz 1500rpm

Output load 60kva	Engine output (kW)	Fuel consumption (L/h)	FC correction L/h	FC 14h
0%	0	5.5	5.5	77
25%	15	6.5	7.15	100.1
50%	30	10	11	154
75%	45	11.2	12.32	172.48
100%	60	15	16.5	231

Fuel Consumption @ 60hz 1800rpm

Output load 60kva	Engine output (kW)	Fuel consumption (L/h)	FC correction L/h	FC 14h
0%	0	6.1	6.1	85.4
25%	15	7.2	7.92	110.88
50%	30	11	12.1	169.4
75%	45	12.3	13.53	189.42
100%	60	16.5	18.15	254.1