

ZEPPELIN PPO 2000 - C32 TWIN

MAIN FEATURES

- Innovative generating set consisting of two synchronized generator, arranged in one common canopy
- Easy synchronization with other generators, and optionally with the mains
- Possibility of single generator work in case of low power consumption, maintenance or breakdown of one machine
- Alternating work mode provides even wear out of each machine
- Total power output accessible at one connection point
- Canopy made of Al. Zn. coated steel plate
- Easy service access
- Various fuel tank size available on request
- Various standard and optional equipment



GENERAL DATA

Model with automatic start	FC 2000 ACG
Code with automatic start	PPO 2000 AH 2100
Model with manual start	FC 2000 RC
Code with manual start	PPO 2000 M 2100
Standby power L.T.P. [kVA]	2200,0
Standby power L.T.P. [kW]	1760,0
Prime power P.R.P. [kVA]	2000,0
Prime power P.R.P. [kW]	1600,0
Prime current P.R.P [A]	2887,0
Frequency [Hz]	50
Voltage [V]	400

Norms and directives:

- Machinery directive 2006/42/WE
- Low voltage directive 2006/95/WE
- EC directive 2004/108/WE
- Noise directive 2000/14/WE
- ISO 8528-1/2005, PN-ISO 8528-5/2005
- PN-EN 12601
- PN-EN 60204-1

Fuel type	Diesel (EN 590)
Fuel consumption at 75% load [l/h]	164,4 / each
Fuel consumption at 100% load [l/h]	214,4 / each
Standard fuel tank capacity [l]	3440
Autonomy with 100% load [h]	8,0
Weight without fuel [kg]	~20200
Dimensions L x W x H [mm]	11060 x 2253 x 3247
Guaranteed noise power Lwa [dBA]	115
Acoustic pressure Lpa (dla 7m) [dBA]	83,3 ± 2

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STANDARD CONTROLLER

Controller code: 2100

Easy to operate, intuitive graphical interface

Automatic synchronization in multiple generator island mode

Parallel to Mains function (with MainsCompact)

Run Hours equalization

Active Load Sharing

Optimizing number of running engines

Event based history with up to 200 records

3 phase generator current measurement

Generator and bus 3 phase voltage measurement

Active/Reactive Power and Power Factor per phase

Genset Active and Reactive Energy counter

Battery charging alternator circuit connection

Fuel level measurement

Real-time clock

Generator protection (over/under frequency, voltage, overcurrent)

USB communication interface (IL-NT-S-USB module required)

RS 232 communication interface

(IL-NT RS232 or IL-NT RS232-485 module required)

Modbus communication interface

(IL-NT RS232, IL-NT RS232-485 or IB-Lite module required)

Internet/Ethernet communication (IB-Lite module required)

CAN communication interface

InteliMonitor software for single gen-set view



RS 485 communication interface

(IL-NT RS232-485 module required)

ModbusTCP communication interface

(IB-Lite module required)

GSM modem / wireless internet (IL-NT GPRS module required)

SMS or e-mail communication (IL-NT GPRS or IB-Lite module required)

WebSupervisor software for Android mobile devices or PC's for fleet management

ENGINE

Brand	CAT
Type	2 x CAT C32*
Made in	USA
Engine power [kW]	992,0
Rotation per minute [rpm]	1500
Engine governor	electrical
Governor class*	G3
Displacement [l]	32,0
No of cylinder	12
Fuel system	unit injectors
Electrical system [V]	24
Coolant	Cat Specification
Cooling system capacity [l]	190,0
Engine oil	Cat Specification
Oil pan capacity [l]	90,0
Fuel type	Diesel (EN 590)
Fuel consumption at 75% load [l/h]	164,4 / each
Fuel consumption at 100% load [l/h]	214,4 / each

* According PN-ISO 8528-5/2005

* Major Overhauled

ALTERNATOR

Brand	Stamford
Type	2 x HCI6J
Made in	Great Britain
Power (40 °C, 1000m a.m.s.l.) [kVA]	1030,0 / each
Stand by power (27 °C, 1000m a.m.s.l) [kVA]	1110,0 / each
Efficiency [%]	95,1
Voltage regulator type	AVR MX321
Voltage accuracy [%]	+/- 0,5
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	<1,5
Reactance Xd'' [%]	15

ZEPPELIN PPO 2000 - C32 TWIN**STANDARD EQUIPMENT**

Controller	MINT (2100)
Controller switch	✓
Generator circuit breaker	Eaton NZMN4- VE1600 x 2
Undervoltage (M) or shunt trip (A) GCB release	✓
Acoustic alarm	✓
Emergency stop button	✓
Starting batteries	2x225Ah
Battery charger (A version)	✓
Engine preheating with thermostat (A version)	✓
Engine oil	Cat Specification
Oil low pressure switch	✓
Oil pressure sensor	✓
Engine high temperature switch	✓
Engine high temperature sensor	✓
Electronic engine speed governor	✓
Frame with fuel tank	✓
Fuel inlet outside of the canopy with lock	✓
Fuel level measurement	✓
Exhaust compensator and silencer	✓
Coolant	Cat Specification
Coolant inlet outside of the canopy	✓
Engine and alternator vibro isolators	✓
Silenced canopy made with Al.-Zn.	✓
Standard color RAL 7032	✓
Transportation brackets	✓

OPTIONAL EQUIPMENT

Oil draining hand pump	✓
Engine preheating switch on the front plate	✓
Generator circuit breaker	4 Pole GCB Schneider NSX Micrologic 2.0
Drip space level sensor	✓
GPRS communication modem	✓
Ethernet card	✓
RS 485, RS 232 card	✓