POWERPACK GENERATOR

For a bright future

YANMAR Series
Diesel Generator Sets
PG46-YM

Output Ratings		
Voltage, Frequency	Prime	Standby
400V, 50 Hz	42 kVA / 33,6 kW	46 kVA / 36,8 kW

Rating Definitions
Prime Power(PRP)

Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hour operation.

Stand By Power(ESP)

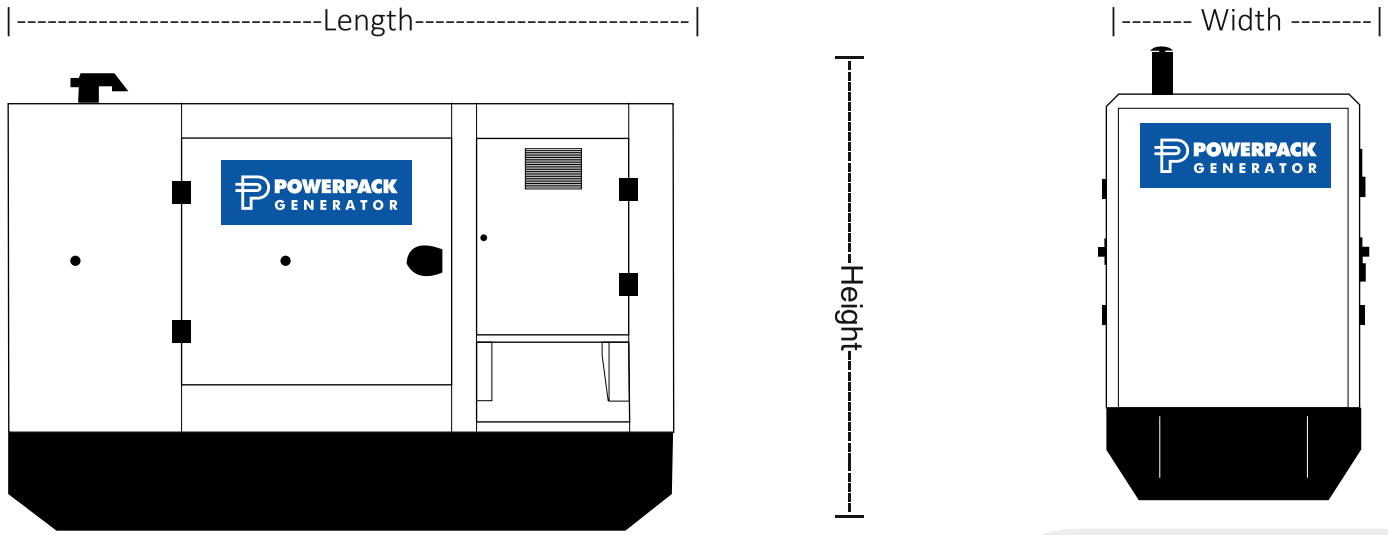
Limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

* Ratings at 0.8 power factor.

- Water Cooled
- 50 hz
- Easy Maintenance
- Modular type sound proof canopy
- 3 phase
- Diesel
- Low fuel warning system
- Remote monitoring and control

Dimensions	W X L X H(mm)	Weight(kg)	Fuel Tank(lt)	Sound Presure Level dB(A)@7 mt
Canopied	1000x2300x1350	763	115	73
Open Skid	1000x1750x1200	560	115	N/A

Powerpack sound attenuated enclosures reduce sound levels to comply with the stage 2 levels of the European Community Directive 2000/14/EC Height Excludes Exhaust Outlet, rain cap and any optional equipment on canopied models.



Engine Technical Data		
Make		YANMAR
Model		4TNV98T-GGEA
No. of Cylinders		4
Cylinder Configuration		In Line
Displacement	lt	3,319
Bore	mm	98
Stroke	mm	110
Compression Ratio		18.1:1
Aspiration		Turbocharged
Governing Type		Mechanical
Cooling Method		Water
Cooling System Capacity	lt	4,2
Total Oil Capacity	lt	10,5
Engine Electrical System	VDC	12
Speed / Frequency	RPM/Hz.	1500/50
Engine Standby Power, Net (50 Hz)	kWm	41,4
Fuel Consumption 100 % 50 Hz	lt/h	8,2
Fuel Consumption 75 % 50 Hz	lt/h	6,4
Fuel Consumption 50 % 50 Hz	lt/h	4,5

Alternator Technical Data	
No of Phases	3
Power Factor	0,8
No of Bearings	Single
No of Poles	4
No of Leads	12/6
Voltage Regulation (Steady State)	± 1%
Insulation Class	H
Protection Class	IP 23
Excitation System	Self Excitation
Voltage regulator	A.V.R.
Connection Type	Star
Total Harmonic Content (No Load)	<3%
Frequency	50
Voltage Output 50 Hz	231/400
Rated Power (Standby) 400V 50 Hz	46 Kva

Radio interference suppression that meets or exceeds EU standard EN61000-6. Voltage regulation at steady state.
Total Waveform distortion at full load.

*Powerpack reserves the right to change product specifications without notice.

Standard Equipments

Engine

In Powerpack generator sets, leading engine brandsthat have state of the arttechnology and have compliance with ISO8528, ISO3046, BS 5514,DIN 6271 standarts, are being used. These engines with low fuelconsumption, provide accurate speed setting and order, mount to the fuelpump, also have mechanic or electronictype governors.

Alternator

In products Powerpack produced, leading alternator brands of the world thathave state of the art technology, high quality, productivity and durability,are being used. All alternators, which pass necessary test process andfound appropriate according to EC 60034-1; CEI EN 60034-1; BS 4999-5000; VDE 0530, NF 51- 100,111; OVEM-10, NEMAMG1.22.standarts, have bearing systemthat does not need maintenance, withelectronictype voltage regulator providing voltage setting.

Control Panel

Standard control panel, that is used in Powerpack generator sets, ensurescomfortable and safe usage. All measured and statistical parameters,operating modes, notice and alarms and condition of generator, aremonitored easily from the control panel. On the front of the panel's metalbody has electronic control module and the emergency stop button andthe panel's metal body is made of steel sheet and is painted withelectrostatic powder paint.

Chassis and Fuel Tank

Chassis is manufactured from steel that has features and durability forcarrying burden of generator set. Thanks to its rigid structural designand anti-vibration mounts, it reduces vibration level to minimum. Allchassis contain lifting lugs. Apart from chassises that are produce by Powerpack, special solutions that design in accordance with customerdesires, make transportation and positioning easier.

Cooling System

System, that consists of quality industrial - type radiator, expansion tankand cooler fan, keeps the temprature of generator set's equipmentsconstant at a proper level.

Canopy Features

POWERPACK Standard Canopies' default features are as follows;

- Compatible with 2000/14/EC directives, certified noise emission level,
- 2 or 4 points transport possibility according to cabin size,
- Hidden exhaust inside the canopy,
- Emergency stop button located on the canopy,
- Improved air suction channel to ensure homogenous cooling in the canopy,
- Radiator air outlet and exhaust with designed towards above,
- Lid on cab that provides to be filled up water and antifreeze easily to the radiator,
- Amplified paint system against corrosion and rust,
- Improved performance in terms of sound insulation,
- Demounted parts that make transportation and maintenance easier,As well as the standard range of canopies, POWERPACK can also design tailormade canopies with specific sound level or size upon customer requests

Optional Equipments

Some Optional Equipments that Powerpack provides with Generator Sets; -

- Medium voltage alternator,
- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, dashboard, alternator, coil heaters,
- Alternator with double AVR and PMG,
- Synchronization systems,
- The generator output breaker,
- Grid-generator transfer switches,
- Accordance with the specific volume of demand-insulated cabins,
- Seismic solutions,
- Trailer,
- Remote monitoring.

POWERPACK GENERATOR

For a bright future

DATAKOM D300

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual “speed fine adjust” on selected ECUs
- Automatic fuel pump control
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled

DATAKOM D500

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- Synchroscope & check synch
- Allows closed transfers
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- Inputs expandable to 40
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby withequal aging of gensets
- Manual “speed fine adjust” on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management

DEEPSEA 7320

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. Sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- “Protections disabled” feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar) protection
- LED and LCD alarm indication
- Power monitoring (kW h, kV Ar,kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection

COMAP InteliLite AMF 25

- Single gen-set controller for stand-by and prime power applications
- Easy to install, configure and use
- 5 languages in the controller
- 3 level of password
- 3 sets of alternative configuration
- Direct communication with EFI engines
- Tier 4 final ready
- Total remote monitoring and control
- Cloud-based monitoring and control via WebSupervisor
- Wide range of communication capabilities including: connection via RS232, RS485, CAN and on board USB internet access using Ethernet, GPRS, 3G or 4G support for Modbus (TCP/RTU) and SNMP (v1/v2c – including traps)
- Active SMS and emails in different languages
- Geofencing and tracking via WebSupervisor
- In-built PLC, complemented with a PLC monitoring tool in InteliConfig (or LiteEdit 2015)
- 8 binary inputs, 4 analog inputs and 8 binaryoutputs on-board
- 2 x high current binary outputs for cranking and fuel solenoid
- More I/Os available over plug-in or CAN modules (CM-BIO8-EFCP, Inteli AIN8, Inteli IO8/8, IGS-PTM)
- Remote Annunciator over CAN
- 2 slots for plug-in modules
- Activation of outputs based on inputs
- Load shedding, dummy load capability
- Real time clock (with battery)
- Multipurpose exible timers

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ISO 9001:2015 ISO 14001:2015 ISO 22000:2005 Turkey Discover the potential