

INDUSTRIAL GENERATORS



Industrial Diesel Generator - PERKINS 10kVA/8kW - 110/230/400V(50/60Hz)









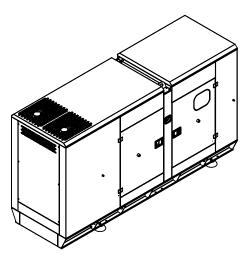


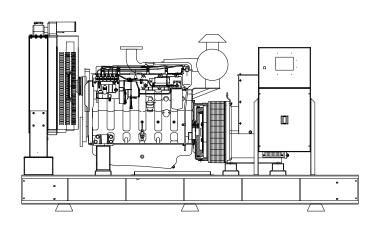
General Specifications

Standby Power (kVA)	10
Standby Power (kW)	8
Prime Power (kVA)	9.1
Prime Power (kW)	7.2
Frequency (Hz)	50 / 60
Cooling System	Water Cooling

- 1) Standby power: The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage. Overloading isn't permissible.
- 2) Prime Power: The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

Dimensions & Weight





Туре	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Fuel Tank Capacity
With canopy	2000	900	1200	595	115
Open type	1650	900	1200	465	115

Polytrade Global SRL reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

www.polytrade.global 1 / 4



ENERGY EQUIPMENT

INDUSTRIAL GENERATORS



Engine Specifications

Engine		PERKINS	
Engine Model		403A-11G	
Number of Cylinders		3 Inline	
Injection System		Indirect	
Compression Ratio		23:1	
Bore (mm)		77	
Stroke (mm)		81	
Displacement (It)		1.1	
Air Intake		Naturally Aspirated	
Speed (RPM)		1500	
Oil Capacity (It)		5	
Standby Power (kW / hp)		7.76 / 10.4	
Prime Power (kW / hp)		7.08 / 9.5	
Fuel Type		Euro Diesel	
Governor System		Mechanical	
Cooling System		Water Cooling	
Coolant Capacity (It)		5.5	
Fuel Consumption (It / h)	Full Load	2.6	
	75% Load	2	
	50% Load	1.5	

Alternator Specifications

Frequency (Hz)	50 / 60
Power (kVA)	12
Voltage (V)	110 / 230 / 400
No. of Phases	3
Aut. Voltage Regulator (AVR)	AS440
Voltage Regulation	±1%
Insulation Class	Н
Protection Standard	IP22-IP23
Power Factor (Cos)	0.8

Polytrade Global SRL reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

www.polytrade.global 2 / 4



ENERGY EQUIPMENT

INDUSTRIAL GENERATORS



Technical Specifications

ENGINE

- PERKINS heavy duty diesel engine
- 12V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP 21-23 Protection Standard
- H Insulation Class
- 50/60 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 110/230/400V AC Output Voltage 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine chassis and chassis ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel water separator filter
- Remote monitoring and control system





Polytrade Global SRL reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

www.polytrade.global 3 / 4



ENERGY EQUIPMENT

INDUSTRIAL GENERATORS



Control Panel

Web based Next Generation Controller



SPECIFICATIONS

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- 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
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection

- · Load shedding, dummy load
- 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
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAr, pf
- Engine speed
- Battery voltage

FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display panel

COMMUNICATION

- USB Device
- RS-232 (2400-57600baud)
- J1939-CANBUS
- Geo-locating through GSM
- GPS support (RS-232)
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU
- Modbus TCP/IP

Polytrade Global SRL reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

www.polytrade.global 4 / 4