

GPR 450 & GPR 438

Engine Speed rpm	Frequency Hz	Type of Operation	Genset Power		Engine Power (Net)	
			kVA	kW	kWm	bhp
1500	50	Prime Power	400	320	349	468
		Stand-by Power	450	360	392	526
1800	60	Prime Power	400	320	349	468
		Stand-by Power	438	350	381	511

STANDARD SPECIFICATIONS

Engine

- PERKINS Heavy duty diesel engine
- Revolution: 1500 / 1800 rpm
- Water cooled
- Tropical type radiator

Alternator

- VDE 0530 & IEC 34-1 standardizations
- Synchron type brushless
- Automatic voltage regulation (AVR)
- Overload acceptance: 110% for 1 hour, 150% for 2 minutes
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 VAC
- Voltage: 50 Hz 230/400 V & 60 Hz 120/208 V three phase
- Voltage regulation: $\pm 0,5\%$
- Protection class: IP23
- Power factor (cos ϕ) : 0,8
- Frequency: 50 / 60 Hz

Manuel Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

Automatic Control Panel

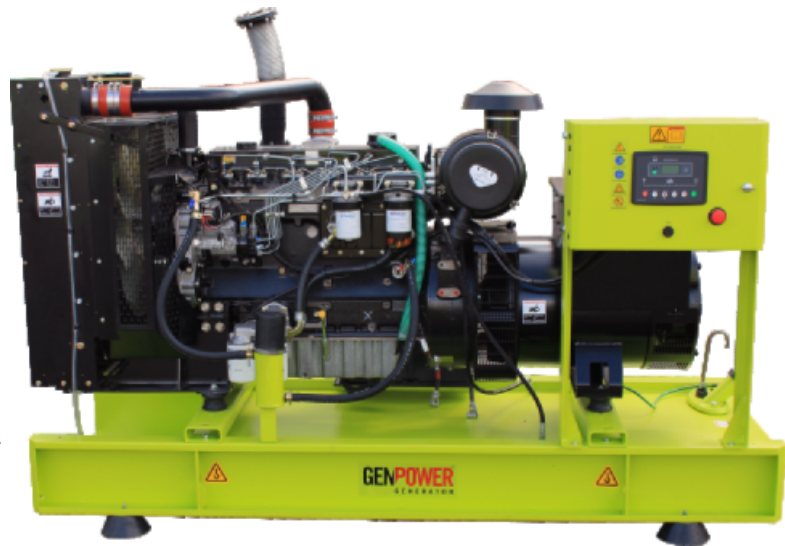
- Microprocessed AMF Electronic Control Panel
- Protection fuses
- Battery charger
- Power Transfer (For ATS)
- Emergency stop button

Chassis

- Mounted on the steel base chassis
- Elastic vibration dampers between engine and chassis
- Chassis integrated fuel tank
- Dial type mechanical fuel indicator

Canopy

- Easy lifting and moving
- Metal parts are coated with electrostatic polyester coated, powder painted
- Thermally insulated exhaust system
- Acoustic insulation with rot*proof, moisture-repellent and non-flammable material (per DIN 4102 A2)



ENGINE

Make	PERKINS
Model	2206A-E13TAG3
Number of Cylinder	6
Cylinder arrangement	Vertical In-Line
Aspiration	Turbocharged AAC*
Combustion system	Direct Injection
Compression ratio	16,3:1
Bore and Stroke	mm 130 x 157
Displacement	lt 12,5
Cooling System	Water Cooled
Total coolant capacity	lt 51,4
Total lubrication	lt 40
Governor Type	Electronic Governor
Electric System	24 VDC

	50 Hz	60 Hz
Fuel Consumption %50 Loaded	lt/h 42	43
Fuel Consumption %75 Loaded	lt/h 62	62
Fuel Consumption % 100 Loaded	lt/h 81	81
Fuel Tank Cap. Open (canopy)	lt 1082	
	lt (527)	

DIMENSIONS

Width w/o Canopy (w/canopy)	mm 1440 (1900)
Length w/o Canopy (w/canopy)	mm 3500 (5000)
Height w/o Canopy (w/canopy)	mm 2280 (3150)
Weight w/o Canopy (w/canopy)	kg 3400 (4850)

TECHNICAL SPECIFICATIONS