



# PMG19 Gas Generator

## Generator Set rating

120/240 Volts, Single phase, 60Hz

## KW output

PF = 1.0

	<i>LP</i>	<i>NG</i>
Standby output (KW)	19	17
Current (A)	158/79	142/71
Prime output (KW)	17	15
Current (A)	142/71	124/62
Sound Level @ 23 ft.		
75% cop rating		65 dBA

## AC Generation Equipment

is our business at PowerMax. Our AC power systems offer a first-rate solution to requirements for Reliable, High Quality Electrical Power for the Residential owner.

All units are:

- 100% full load tested
- Performance supported by prototype testing
- Capacitive Regulated Generator for exceptional motor starting capability and high reliability





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## Standard Equipment

- 4 Cycle Liquid cooled LPG / NG engine
- Battery Charging alternator
- Single stage dry type air cleaner
- Integral Muffler w/ rain cap
- Aluminum Sound attenuated Outdoor Enclosure
- 12VDC engine electrical systems
- 12V starting motor
- Dirty Air Filter switch
- Capacitive Regulated Brush- less Alternator
- Tropical Treated Alternator
- Steel base with vibration isolators between engine, generator and the base.
- Under Base stub up area for hidden wiring access
- Integral Control Box behind a locked door
- UL Mainline circuit breakers located in the lockable Control Box
- Single connection area for main AC terminals and all control wiring
- UL on board Utility powered AC battery charger
- Utility Present Light
- Battery rack tie down bar and Cables
- In Base Oil drain
- In Base Coolant drain

- All steel parts are powder paint coated.
- Stainless Steel external hardware
- Microprocessor based, fully programmable auto start control panel with metering and security
  - Integral programmable ATS control logic built into System controller
  - Exercise without load capability for unattended operation
  - Digital read out control system with the following accessible standard displays:
    - Utility Voltage L-L
    - Generator Voltage L-L
    - Generator Frequency
    - Generator Current
    - Battery Voltage
    - Operating hours
  - Additional information available on the controller display are:
    - ATS switch position
    - Generator run / on
    - Error codes detailed on the controller face
    - Test, Manual, Automatic and Reset buttons
    - Remote manual switching of ATS from the control panel
  - Shut down:
    - High engine temp
    - Low oil Pressure
    - Cranking Failure
    - Over speed
    - High voltage generator
      - Low voltage generator
      - Under frequency
  - Warning:
    - High Battery Voltage
    - Low Battery Voltage
  - Common alarm relay output
  - Automatic test function
  - Low fuel shutdown to prevent emptying fuel system

## Options:

- Automatic transfers switches for any application
- Will operate with Standard 2 wire ATS
- Capable of external start / stop operation
- Capable of single phase 120V operation
- Project engineering help available for "Specials"
- Utility powered Block Heater



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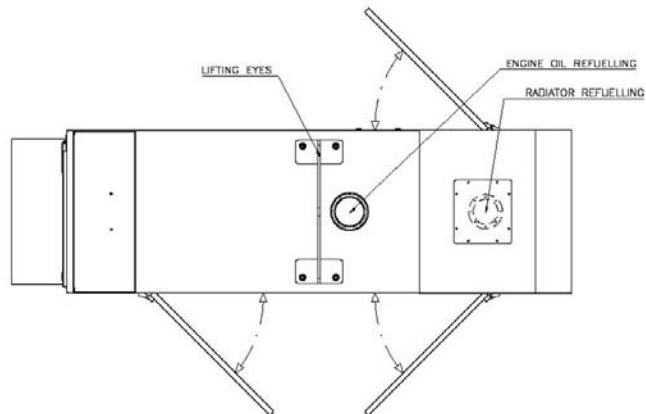
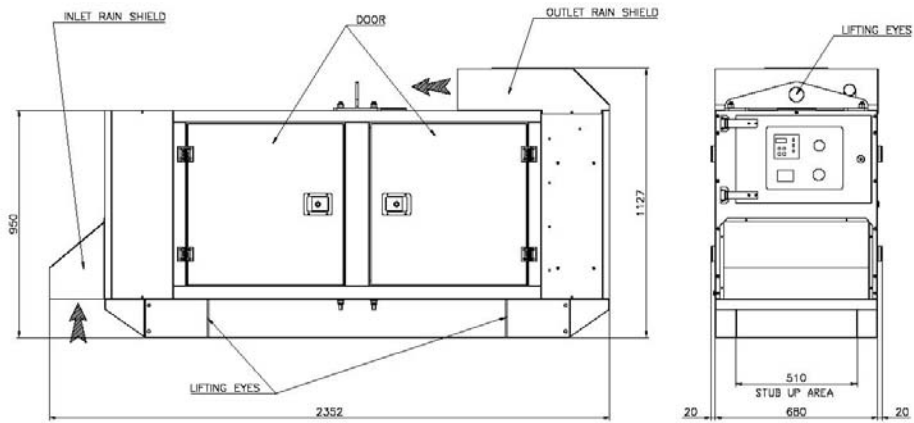
## Technical Specifications

Engine Specifications:			
Manufacturer-hp	TOFAS	<b>Generator</b>	
Model	SOHC 1600cc	Generator MFG.	SINCRO
Intake System	Natural	Type	GK2MBL
Cylinders	In-line 4	Model	22kVA (240V – 60Hz)
Displacement	1600 cc	Speed	3600 RPM
Bore and Stroke	86.4 X 67.4 mm	Rated Voltage	120/240 60Hz
Compression ratio	9:1	Rated Power	22.0 KVA
HP LP	38 HP @ 2400rpm	Voltage Accuracy	Approx. +/- 5%
HP NG	34 HP @ 2400rpm	Motor Starting kVA	
Valves	Single Overhead Cam	(At 35% Dip,	
Governor\	Electronic	100% voltage recovery)	41 SkVA
Cooling system	Pressurized, Closed recovery	Over speed	4320 RPM
Lubrication System	Pressurized oil	THD	Approx. 5%
Oil Capacity w/ Filter	4.4 Quarts	Protection	IP 23
Cooling System capacity	2,25 gal.	Cooling flow	9,2 Cubic Meters / min
<b>Fuel Pressure Requirements</b>		<i>Insulation Class</i>	
LP and NG	8 to 11 inch. water column	Stator	F
Fuel Inlet	¾ inch NPT	Rotor	H
<b>Fuel Consumption at 100% load</b>			
LP	3,7 gallons per hour		
NG	311 cubic feet per hour		
<b>Generator Set</b>			
<b>Frequency variation</b>	58.6 to 62.2 Hz		
<b>Nominal Sound Level</b>	64dBA		
	@ 23FT 75% cop rating		
<b>Derating Factors:</b>			
for every 328 ft above Sea Level	3.5%		
for every 10 Deg. F above 77 Deg F	1.0%		
Dry Weight:	1,600 lbs.		
Basic footprint:	83.5x28.3x41.3 inches		



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## Mechanical Layout





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## How to move the generator

