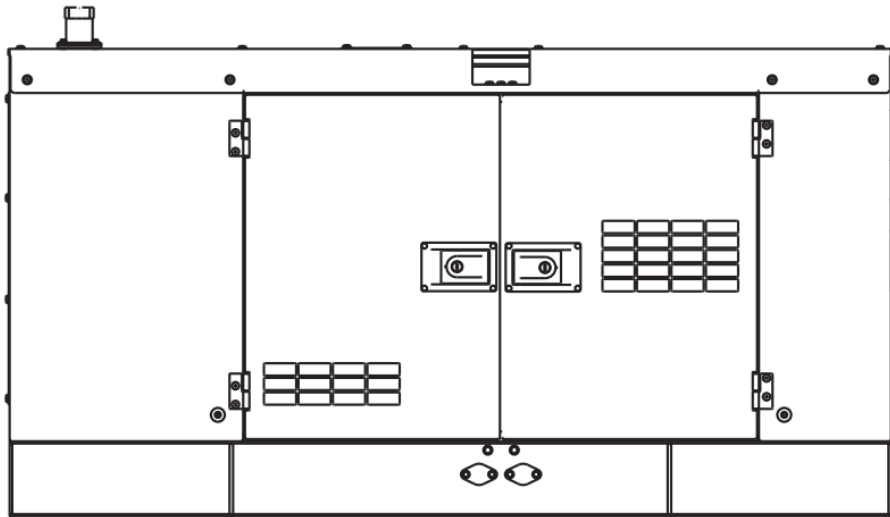




PREMIUM DIESEL GENERATOR SETS

Prime Rating — 20 kW (25 kVA)
Standby Rating — 22 kW (27.5 kVA)



STANDARD FEATURES

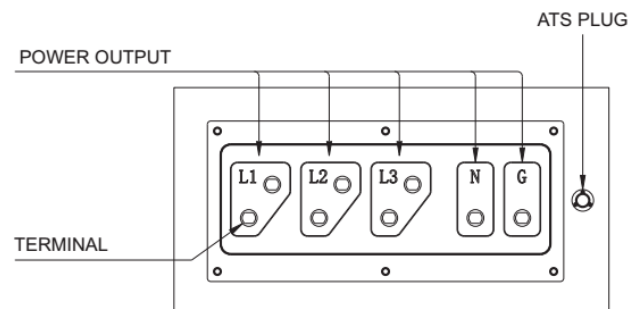
- Heavy duty, 4-cycle, variable speed fan, diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements. Class H protection.
 - Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.
 - Automatic voltage regulator (AVR) provides precise regulation.
- Electronic governor system maintains frequency to $\pm 0.25\%$.
- Full load acceptance of standby nameplate rating in one step
- Soundproof, weather resistant, steel housing provides operation at 65dB (A) at 7meters. Fully lockable enclosure allows safety operation. Outdoor operation available.
- Internal fuel tank with direct observing glass, and fuel level meter display on control panel
- E-coat and powder coat paint provides durability and weather protection.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed, and fuel level.
- Analog generator instrumentation including Ampere meter,
- Voltage meter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch. Analog generator instrumentation and regulator adjustment.
- Deepsea/Comap professional generator controller.
 - High visibility LCD display with heated screen and alphanumeric readout.
 - IP65 Protection standard, operational temperature range of -40° to 85° C.
 - Modbus interface for gauge panel and expansion options.
 - DPF cleaning cycle indication.
 - Log record for inspection
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, low coolant, low DEF, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- Fuel/water separator. Removes condensation from fuel for extended engine life.
- Emergency stop switch — when manually activated, shuts down in any emergency.

SILENT SERIES

DECIBEL	LEVELS
Normal conversation allows substantially lower operating noise levels than competitive designs.	
90	— Subway / truck traffic
80	— Average city traffic
70	— Inside car at 60 mph
60	— Air conditioner at 6m
65.0	→ Genset at 7m
50	— Normal conversation

65.0
DECIBELS

GENERATOR OUTPUT PANEL





PREMIUM DIESEL GENERATOR SETS

SPECIFICATIONS

Generator Specifications	
Model	Revolving field, self-ventilated weatherproof
Standby Output	22 KW (27.5 KVA)
Prime Output	20 KW (25 KVA)
Power Factor	0.8
Voltage Regulation (No load to full load)	±0.5%
Generator RPM	1800
Frequency	60 Hz
No. of Poles	4
Excitation	Brushless with AVR
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.
Insulation	Class H
Sound Level dB(A) Full load at 7M	65

Fuel System	
Maximum Fuel Flow (per hour)	16.3 gallons (63 liters)
Fuel Tank Capacity	19.8 gallons (75 liters)
Fuel Consumption	L / h
At full load	4.66
At 3/4 load	3.6
At 1/2 load	2.6
At 1/4 load	1.3

Control system	
Controller Brand	Deepsea
Module	Manual/Auto start/stop module
Standard function	Engine control
	Generator monitoring
	Generator protection
	Specification
Display	Frequency
	Battery voltage
	Running hour
	under/over voltage
Warning/shutdown	under/over speed
	under/over frequency
	Low oil pressure
	High water temperature
Communication port	USB

Engine Specifications	
Make / Model	Perkins / 404D-22G
Emissions	EPA Tier3
Starting System	Electric
Design	4-cycle, water cooled, direct injection, natural intake air cooled
Displacement	2.2 liters
No. cylinders	4
Bore x Stroke	84 x 100 mm
Gross Engine Power Output	28.9 hp (21.6 kW)
Compression Ratio	23.3 : 1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	1.84 gallons (7.0 liters)
Coolant Capacity	2.64 gallons (10.6 liters)
Battery	12V 60Ah x 1

Alternator	
Alternator Brand	Stamford / Meccalte / Dingol
Alternator Model	SOL2-M1/ ECP28M4A/ DG184ES
Excitation	Brushless, Self-Excited system
Capacity(KVA)	29.4kva
Power(KW)	23.52kw
Efficiency(%)	88%
Insulation class	Class H
Protection class	Ip23
Steady state voltage regulation	±1%
Voltage control	AVR

WARRANTY*

Generator

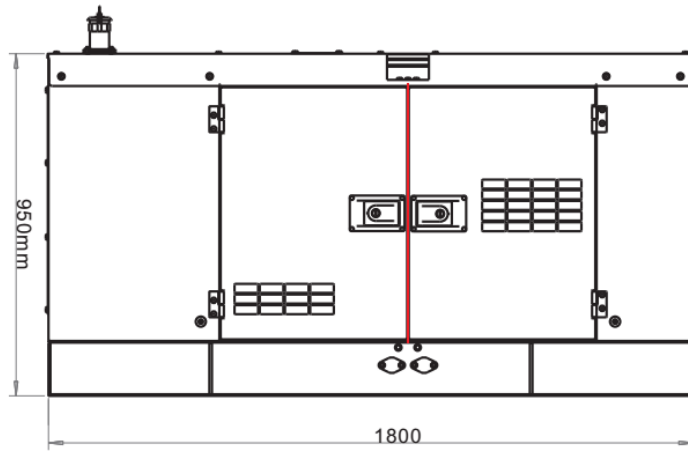
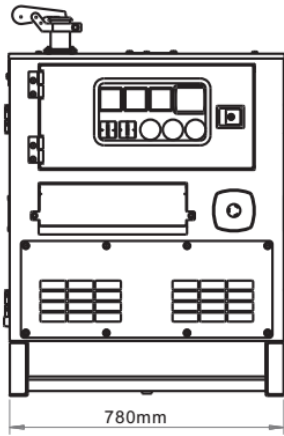
12 months from date of purchase or 1000 hours (whichever occurs first).

NOTICE

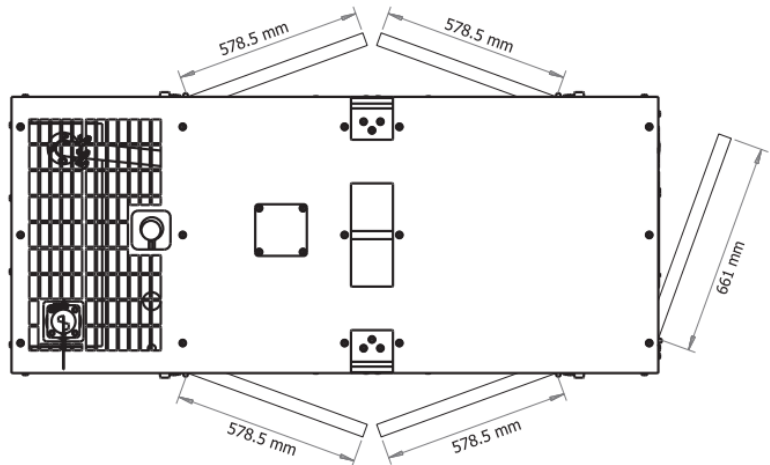
Enough Air flow is extremely important to Generator operation. Improper connection can cause electrocution and/or property damage. Do not connect to any electrical system except through an approved device. Specifications are subject to change without notice.



PREMIUM DIESEL GENERATOR SETS



Weight	
Dry Weight	780 kg
Wet Weight	830 kg
Max. Lifting Point capacity	1400 kg



Specs, Design and Distribution by
Specialized Power Systems Inc

Manufactured for Specialized Power by
Universal Machinery Co., Ltd