

# Diesel Generating Set



Model Name	<b>GEN55RPT</b>
Prime Power	<b>40 kW / 50 kVA</b>
Standby Power	<b>44 kW / 55 kVA</b>

## Open Type



Image shown may not reflect actual package.

Length	<b>1680</b>	mm
Width	<b>650</b>	mm
Height	<b>1350</b>	mm
Weight	<b>920</b>	kg

## Soundproof Type



Image shown may not reflect actual package.

Length	<b>2600</b>	mm
Width	<b>1140</b>	mm
Height	<b>1780</b>	mm
Weight	<b>1420</b>	kg

## Features

### Generating Set

- ⊕ Complete system designed and built at ISO9001 certified facility
- ⊕ Factory tested to design specifications at full load conditions
- ⊕ With a range of options & accessories

### Engine

- ⊕ Industrial water cooled diesel engine
- ⊕ High efficiency, 4-Cycle diesel engine
- ⊕ Electrical system, 12VDC
- ⊕ Oil filter, fuel filter, air filter

### Alternator

- ⊕ Self excited brushless alternator
- ⊕ Insulation system, class H
- ⊕ Matched to the performance & output characteristics of Perkins engine

### Control System

- ⊕ Manual, auto or paralleling operation
- ⊕ Many display & protection function standard control panel was equipped
- ⊕ Auto start, automation & auto transfer as optional configuration

### Exhaust System

- ⊕ Heavy duty industrial capacity exhaust silencer

### Cooling System

- ⊕ Standard ambient temperatures up to 50°C
- ⊕ Fan, fan drive and charging alternator fully guarded

### Circuit Breaker

- ⊕ Power output MCCB was equipped as standard

### Automatic Voltage Regulator

- ⊕ Voltage regulation  $\leq \pm 0.5\%$
- ⊕ Provides fast recovery from transient load changes

### Quality Standards

- ⊕ ISO 8528 / GB 2820

### Documentation

- ⊕ Operation & maintenance manuals provided
- ⊕ Wiring diagrams & connecting picture included

### Warranty

- ⊕ All equipment carries full manufacturers' warranty

Materials and specifications are subject to change without notice.

## Diesel Generating Set

### Specifications

Engine		Alternator	
Maker	Perkins	Maker	Leroy Somer
Model	<b>1103A-33TG2</b>	Model	<b>LSA 42.3 M8</b>
Type	4-Cycle	Type	Self-excited, brushless
Aspiration	Turbo charged	Rated power, Frequency	415/240V, 50Hz
Cylinder Configuration	In-line 4	Voltage Regulation	≤±1%
Displacement - (L)	3.3	Frequency Regulation	≤±1.5%
Bore/Stroke - (mm)	105/127	Power Factor	0.8(lag)
Compression Rate	17.25:1	Wire Connecting Way	3 phases 4 lines Y type connecting
Engine Speed - rpm 50Hz	1500	Waveform Distortion	THD<4%
Piston Speed - (m/sec) 50Hz	6.35	Radio Interference	Accordance EN6100-6
Maximum Power at Rated rpm -(kW)		Telephone Interference	TIF<50, THF<2%
Standby 50Hz	60.5	Overspeed Limit	2250 rpm
Prime 50Hz	55.0	Insulation	H Class
Governor		Temperature Rise	Within H Class
Type	Electrical	Protection	IP23
Class	ISO 8528 G2		

### Generating Set Technical Data

Generating Set @ 1500rpm/50Hz/415Volts	Model: GEN55RPT	
<b>Package Performance</b>		
Genset Power Rating @ 0.8pf	50	kVA
Genset Power Rating with fan (cosΦ = 0.8)	40	kW
<b>Fuel System</b>		
Base Fuel Tank Capacity	200	L
Fuel Consumption		
100% load	14.6	L/hr
75% load	10.8	L/hr
50% load	7.56	L/hr
<b>Lubricating System</b>		
Type	Inside oil pump, forced feed lubrication	
Oil Filter	Spin-on, Full Flow	
Normal Running Oil Pressure	276 - 414	kPa
Oil Pan Capacity	7.8	L
Total Lube System Capacity	8.3	L
<b>Cooling System</b>		
Water Pump Type	Closed type, forced feed cooling	
Cooling System Capacity	10.2	L
Maximum Coolant Temperature	110	°C
Coolant Flow Rate	125.5	L/min
<b>Engine Electrical System</b>		
Voltage/ Ground	12V DC/ Negative	
Battery Charging Alternator Ampere Rating	65	A
<b>Air Requirements</b>		
Combustion Air Flow	3.9	m <sup>3</sup> /min
Maximum Air Cleaner Restriction	8	kPa
<b>Exhaust System</b>		
Maximum Allowable Backpressure	10	kPa
Exhaust Flow at Rated Power	10.4	m <sup>3</sup> /min
Exhaust Temperature at Rated Power (Dry Exhaust)	571	°C

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