

Diesel Generating Set



Model Name	GEN66RPT
Prime Power	48 kW / 60 kVA
Standby Power	52 kW / 66 kVA

Open Type



Image shown may not reflect actual package.

Length	1680	mm
Width	650	mm
Height	1350	mm
Weight	920	kg

Soundproof Type



Image shown may not reflect actual package.

Length	2600	mm
Width	1140	mm
Height	1780	mm
Weight	1420	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.

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Specifications

Engine		Alternator	
Maker	Perkins	Maker	Leroy Somer
Model	1103A-33TG2	Model	LSA 42.3 L9
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: GEN66RPT	
Package Performance		
Genset Power Rating @ 0.8pf	60	kVA
Genset Power Rating with fan (cosΦ = 0.8)	48	kW
Fuel System		
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
Lubricating System		
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
Cooling System		
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
Engine Electrical System		
Voltage/ Ground	12V DC/ Negative	
Battery Charging Alternator Ampere Rating	65	A
Air Requirements		
Combustion Air Flow	3.9	m ³ /min
Maximum Air Cleaner Restriction	8	kPa
Exhaust System		
Maximum Allowable Backpressure	10	kPa
Exhaust Flow at Rated Power	10.4	m ³ /min
Exhaust Temperature at Rated Power (Dry Exhaust)	571	°C

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