

SR POWER

SR20-1-P4i1

Powered By:



Diesel Power



DIESEL GENERATOR SET

Generator Set Output Rating

Voltage (V)	Hz	Phase	PF	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
220/110	60	1	1.0	90.9	18/18	20/20

Canopy Model	Dimensions (L x W x H mm)	Weight (Kg)	Fuel - Hours of Run-time
TC2000	2000 x 830 x 1250	860	6-8h
Open Model	Dimensions (L x W x H mm)	Weight (Kg)	Fuel - Hours of Run-time
SR20-1-P4i1	1300 x 650 x 1130	507	6-8h

Standard Configuration	Test Condition and Standards
<ul style="list-style-type: none"> Engine (Perkins) Channel Steel Base 12V Charging Alternator GE Circuit Breaker 12V Starter Battery and Connecting Cable Flexible Pipe, Exhaust Elbow, Industrial Silencer, etc. 	<ul style="list-style-type: none"> Ambient Temperature: $\leq 27^{\circ}\text{C}$ Relative Humidity: $\leq 60\%$, Altitude: $\leq 1000\text{m}$ Engine: ISO3046, DIN6271, BS5514 Alternator: VDE0530, BS5000, NEMA MG1-32, IEC34 Generator: ISO8528, GB2820 Generator O&M Manuals
<ul style="list-style-type: none"> Alternator (Stamford) 50°C Radiator Air Filter, Diesel Fuel Filter, Lube Oil Filter Control Panel (DSE7320) 	

Engine Technical Data

Model:	404D-22	Max. Power (kW):	23.9
Induction System:	Naturally Aspirated	Displacement (L):	2.216
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	84 x 100
Number of Cylinders:	4	Compression Ratio:	23.3:1
Governor Type:	Mechanical	Speed (RPM):	1800

Air System

Combustion Air Flow (M ³ /min):	Standby: 1.74
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Exhaust System

Combustion Gas Flow (M ³ /min):	4.34/4.76	Max. Back Pressure (kPa):	10.2
Exhaust Gas Temperature:	$\leq 505^{\circ}\text{C}$	Exhaust Outlet Size (mm):	42

Lubrication System

Total Oil Capacity (L):	10.6	Oil Consumption 100% Load (L/h):	0.008/0.009
Normal Oil Temperature (°C):	125	Recommended Oil:	API CF-4 15W/40

Cooling System

Cooling System Capacity (L):	7.0	Max. Coolant Temperature (°C):	112
Thermostat Operation Range (°C):	82-95	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M ³ /min):	29.4	Radiator Power (kW):	0.4

Fuel System

Fuel Injection Pump:	Cassette type	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/h):	6.2	Fuel Consumption 110% Load (L/h):	6.9

Engine Electrical System

Voltage:	12Vdc
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Alternator Physical Data

Model:	PI144F	Rated Power (kVA):	20
Phase:	1	Number of Bearings:	1
Excitation System:	Self-Excited and Brushless	AVR:	AS480
Connection:	Double Delta	Insulation Class/Temp Rise:	H/H
Power Factor:	1.0	Wave form NEAM=TIF:	<50
Ingress Protection Rating:	IP23	Wave form IEC=THF:	<2%
Winding Pitch:	2/3	Voltage Regulation:	±1%
Cooling Air (M ³ /s):	0.1	Efficiency:	82.9%

Warranty

The standard warranty period: One year after ex-works from factory or 1500 operation hours whichever come occurs first.

- **The model name and output rating figures are base on 400V and may have a 2% deviation**
- **Specifications subject to change without prior notice**



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