



Generating Set pictured may include optional accessories

POWERED BY:

SPerkins

Diesel Power

GENERATING SET MODEL (JP20)		
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	20 KVA	22 KVA
	16 KW	17.6 KW

Ratings at 0.8 Power Factor

ingine Make	Perkins	
Engine Model	404A	-22G
Governing Type	Mech	anical
Number of Cylinders	4	
Cylinder Arrangement	Vertica	ıl in line
Bore and Strokemm	84 x	100
Displacement / Cubic Capacitylitres	2.2	16
Induction System	Naturally Aspirated	
Cycle	4 stroke	
Combustion System	Indirect Injection	
Compression Ratio	23.3:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross Engine PowerkW (hp)	18.7 (25.1)	20.6 (27.6)
Fuel Consumption @ 50% loadL/hr	2.9	-
@ 75% load L/hr	4.0	-
@ 100% load L/hr	5.3	6.1
Total Lubrication System Capacityitres	10.6	10.6
Total Coolant Capacity (inc. radiator)itres	7.0	7.0
Exhaust Temperature?C	445	505
Radiator Cooling Air Flow (Min)m³/sec	0.49	0.49
Combustion Air Flowm³/min	1.45	1.45
Exhaust Gas Flow:m³/min	3.64	3.94
Fuel Tank Capacity:litres	50	50

DIMENSIONS AND	WEIGHT		
Lengthcm	Widthcm	Heightcm	Weight*kg (wet)
127	52	142.7	475
* For skid mounted genset w	vithout enclosure		wet weight = with lube oil and coo

* For skid mounted genset without enclosure

STANDARD SPECIFICATIONS

Perkins four stroke heavy duty high performance industrial typdiesel engine.

2. ENGINE FILTRATION SYSTEM

- Air filter.
- Fuel filter.
- Full flow lube oil filter.

All filters have replaceable elements.

COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level	20 (dB)	
Maximum allowable back pressur	e 10.2 (kP	a)

5. CIRCUIT BREAKER TYPE

ABB 3 pole MCB. (4 pole is optional)

(contd.)

ALTERNATOR DATA	
Make	Leroy Somer
Model	TAL040F
No. of bearings	1
Insulation class	Н
Total Harmonic Content	at no load <3.5% - on load <5%
Wires	12
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (wdg 3)
AVR Model	R120
Overspeed	2250 mñ ¹
Voltage Regulationsteady)	± 1%
Short Circuit Capacity	-

AREP Excitation System Available as Optional.

CONTROL PANEL	
Make	Deep Sea
Model	DSE6110

The DSE6110 is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

Metering and Alarm indications:

- Generator frequency
- · Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) Optional
- Hours run counter
- · Battery volts
- Fail to start/stop
- · Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signaOptional
- Low DC voltage
- · CAN diagnostics and CAN fail/error

(Please refer to DSE6110 brochure for more details)





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RATINGS DEFINITION

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

STANDARD REFERENCE CONDITIONS

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 55°C), humidity (up to 99%) and higher altitudes. De-ration may apply, please consult your dealer for specific site ratings.

Some of the specifications are not standard on all Genset models.

AVAILABLE OPTIONS & ACCESSORIES

We offer a range of optional features and accessories to tailor our generating sets to meet your power needs.

- A variety of generating set control and synchronizing panels
- Additional protection alarms and shutdowns
- Water fuel seperator
- · Water jacket heater
- Battery charger

ACCESSORIES

- Genuine spare parts
- Load banks
- Auxiliary fuel tanks
- · Manual & automatic transfer switches

Distributed and Serviced by:

JET Generators are assembled

in facilities certified to ISO 9001



For further information on all of the standard and optional features accompanying this product please contact your local dealer or visit www.powerandco.net

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All information in this document is substantially correct at time of printing and may be altered subsequently.

STANDARD SPECIFICATIONS

AN INSPIRED DESIGNTO MEET YOUR NEEDS

On Generating Sets up to 700 KVA, the baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- · Heavy coat of antitracking varnish additional protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATORVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±1%. Nominal adjustment by means of a trim pot incorporated on the AVR.

7.3 MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 secondshen PMG option is fitted.

8. MOUNTING ARRANGEMENT

8.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe.

8.2 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.3 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.4 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

9. FACTORY TESTS

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. DOCUMENTATIONS

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

12. OUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions.

(check warranty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice.