



POWERED BY:





Generating Set pictured may include optional accessories

GENERATING SET MODEL (JP275)		
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	275 KVA	300 KVA
	220 KW	240 KW

		Ratingsat 0.8 Powe
ENGINE / TECHNICAL DATA		
Engine Make	Perkins	
Engine Model	1506A-E88TAG4	
GoverningType	Elec	ctronic
Number of Cylinders		6
Cylinder Arrangement	Vertic	al in line
Bore and Strokemm	112	x 149
Displacement / Cubic Capacitylitres	3	3.8
Induction System	Turbochargedair	to air charge cooled
Cycle	4 s	troke
Combustion System	Direct	Injection
Compression Ratio	16	5:1
Rotation	Anticlockwisev	riewed on flywheel
Cooling System	Water - cooled	
Frequercy and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross EnginePowerkW	258	281
Fuel Consumption@ 50% load L/hr	31.6	-
@ 75% load L/hr	45.8	-
@ 100% load L/hr	60.2	66.3
Total Lubrication System Capacityitres	41	41
Total Coolant Capacitylitres	33.2	33.2
Boost Pressure Ratio	3.0	3.2
Exhaust Temperature:°C	576	574
Radiator Cooling Air Flow (Min)m ³ /sec	6.16	6.16
Combustion Air Flowm³/sec	0.25	0.27
Exhaust Gas Flow:m³/sec	0.69	0.77
Fuel Tank Capacity: litres	360	360
* *		I and the second

DIMENSIONS AND	WEIGHT		
Lengthcm	Widthcm	Heightcm	Weight*kg (wet)
290	99	183	2252
* For skid mounted genset w	rithou des ure		wet weight = with lube oil and coo

* For skid mounted genset withoutlesure

STANDARD SPECIFICATIONS

Perkins fourstrokehævy dutyhigh performace industrial typediesel engine.

2. ENGINE FLTRATION SYSTEM

- Cartridge typeral air filter.
- Cartridge type fuel filter.
- Full fbw lube oil filter.
- Water filter.

All filters by replaceable elements.

3. COOLING RADATOR

Radator and cooling fan, complete with safety guards designed o cool the engine at high ambient temperatures (consult your dealer for de-ation factor)s

4. EXHAUST SYSTEM

Patingsat 0.9 Power Factor

Hævy duty Industrial Exhaust Silencer

Silencer noise reduction level	12 (dB)
Maximum adwable back pressure	10 (kPa)

5. CIRCUIT BREAKER TYPE

ABB 3 pole MCCB. (4 pole is optional)

(contd.)

ALTERNATOR DATA	
Make	Leroy Somer
Model	TAL 046E
No of bearings	1
Insulationclass	Н
Total Harmonic Content	<5% on linear load
Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (n° 6S)
AVR Model	R150
Overspeed	2250 mñ¹
Voltage Regulation(steady)	± 1%
Short Circuit Capacity	-

PMG Excitation SystemAvailable as Optional.

CONTROLPANEL	
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 signal Optional
- 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 lectrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

StandbyPower

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:



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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AN INSPIRED DESIGN TO MEETYOUR NEEDS

STANDARD SPECIFICATIONS

6. FUEL SYSTEM

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 seconds, when 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)