

Engines (Volvo)

- ◆ Heavy duty air cleaner
- ◆ Oil and fuel filters
- ◆ Fuel-lift pump
- ◆ 12 V electric starting system (up to 185 kVA)
- ◆ 24 V electric starting for larger sizes
- ◆ Residential exhaust silencer
- ◆ Electronic management system

- ◆ Battery voltage
- ◆ Engine hours run

The control module has indicators for:

- ◆ Overspeed/underspeed
- ◆ Engine oil pressure
- ◆ Engine temperature
- ◆ Failure to start
- ◆ Battery charger failure

Alternator Specification

- ◆ Single-bearing, 4-pole brushless alternator
- ◆ Solid state AVR with ±1.5% as standard
- ◆ Class H insulation on the rotor and stator, with ingress protection rating 23

Automatic shutdown occurs under:

- ◆ Low engine oil pressure
- ◆ High engine temperature
- ◆ Overspeed/underspeed
- ◆ Failure to start after three attempts

Optional Items

- ◆ Acoustic canopy (64 dBA at 10 metres)
- ◆ 2-wheel trailer 75 and 100 kVA models
- ◆ 4-wheel trailer 125 and 150 kVA models
- ◆ GPRS generating set module system

Manual/Remote Start Sets

These sets have the flexibility of either manual or remote automatic operation:

- ◆ Manual operation is by **START** and **STOP** push-buttons on the control module
- ◆ Remote operation is achieved by connecting a 2-wire circuit to the relevant terminals on the control module and is activated by setting the control module to **AUTO**

Control Cubicle

All sets have a control cubicle mounted on a vibration-isolated support, which has the following features:

- ◆ Electronic digital control module with monitoring/control facility and warning indicators
- ◆ Automatic shutdown protection
- ◆ AC output circuit breaker with over-current protection
- ◆ DC circuit control switch and overload circuit breaker

Automatic Mains Failure Sets (AMF)

In the event of a mains failure, the generating set will automatically operate to supply the electrical load. In addition to the standard features, automatic mains failure sets have:

- ◆ Generator-mounted cubicle governing automatic mains failure operation
- ◆ Control module timer circuits set to delay start, delay transfer back to mains and delay stop to allow for engine cooldown
- ◆ Solid-state automatic battery charger that maintains charge when set is not running

The control module gives digital readouts of:

- ◆ Generator voltage (phase-to-phase and phase-to-neutral)
- ◆ Generator current (each phase displayed separately)
- ◆ Output frequency
- ◆ Engine speed
- ◆ Engine oil pressure
- ◆ Engine coolant temperature

The Generator-mounted cubicle features:

- ◆ Mains monitoring unit to control set operation
- ◆ Load-transfer contactors, mechanically and electrically interlocked (rated for set output)
- ◆ Indicator for mains-on-load or plant-on-load

Power Outputs to ISO 8528-1¹

Sound Pressure ³									
Acoustic sets, 75% load at 10m									
50 Hz, 1500 r/min									
W80(A)	W90(A)	W110 (A)	W140 (A)	W165 (A)	W200 (A)	W220 (A)	W275 (A)	W300 (A)	W330 (A)
64 dBA	64 dBA	64 dBA	64 dBA	64 dBA	64 dBA	64 dBA	64 dBA	64 dBA	64 dBA

50 Hz, 1500 r/min			
Model	Engine	Rating	Three Phase
			kVA
W80(A)	TD 520 GE	Prime	75.0
		Standby	82.5
W90(A)	TD 520 GE	Prime	85.0
		Standby	93.5
W110 (A)	TAD 531 GE	Prime	100.0
W140 (A)	TAD 532 GE	Prime	125.0
		Standby	137.5
W165 (A)	TAD 731 GE	Prime	150.0
		Standby	165
W200 (A)	TAD 732 GE	Prime	185.0
		Standby	203.5
W220 (A)	TAD 733 GE	Prime	200.0
		Standby	220
W275 (A)	TAD 734 GE	Prime	250.0
		Standby	275
W300 (A)	TAD 940 GE	Prime	275.0
		Standby	302.5
W330 (A)	TAD 941 GE	Prime	300.0
		Standby	330.0

Approximate Fuel Consumption 1500 r/min				
Values refer to litres/hour			g/kw/hr	Aprox consumption litres/hr
Genset	Engine	Load		
W80(A)	TD 520 GE	100%	213	19.0
		75%	208	13.9
W90(A)	TD 520 GE	100%	213	19.0
		75%	208	13.9
W110(A)	TAD 531 GE	100%	218	23.1
		75%	218	17.3
W140(A)	TAD 532 GE	100%	210	28.3
		75%	214	21.7
W165 (A)	TAD 731 GE	100%	216	34.6
		75%	215	25.8
W200 (A)	TAD 732 GE	100%	213	41.1
		75%	213	30.8
W220 (A)	TAD 733 GE	100%	214	45.6
		75%	216	34.5
W275 (A)	TAD 734 GE	100%	217	56.5
		75%	214	41.8
W300 (A)	TAD 940 GE	100%	187	54.5
		75%	210	45.9
W330 (A)	TAD 941 GE	100%	200	67.7
		75%	202	51.3

Fuel Tank Size	
Model	Fuel Tank Size litres
W80(A)	300
W90(A)	300
W110 (A)	350
W140 (A)	350
W165 (A)	400
W200 (A)	400
W220 (A)	400
W275 (A)	400
W300 (A)	500
W330 (A)	500

Approximate Dimensions

		Acoustic sets										
		W80(A)	W90(A)	W110 (A)	W140 (A)	W165 (A)	W200 (A)	W220 (A)	W275 (A)	W300 (A)	W330 (A)	
 <p>PLEASE NOTE: EXHAUST IS SUPPLIED LOOSE</p>	Length (A)	mm	3000	3000	3500	4000	4000	4300	4300	4300	4500	4500
	Width (B)	mm	1000	1000	1500	1500	1500	1500	1500	1500	2000	2000
	Height (C)	mm	2000	2000	2000	2000	2000	2450	2450	2450	2500	2500

Rating Definitions to ISO 8528-1

Ratings are in accordance with ISO 8528-1. Power Factor: Single phase, 1.0 pf; three-phase, 0.8 pf. Other voltages are available on request.

Rating Conditions

A standard generating set is designed to operate in environmental reference conditions of 25 °C, 100 kPa and 30% humidity.

Prime Power

This rating is for the supply of continuous electrical power (at variable load). There is no limit on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

Standby Power

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.


Weight

		Acoustic Sets									
		W80(A)	W90(A)	W110 (A)	W140 (A)	W165 (A)	W200 (A)	W220 (A)	W275 (A)	W300 (A)	W330 (A)
Dry weight	kg	1300	1500	2000	2500	2500	3500	3500	3500	3500	4000

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Hawkpower distributor. (See panel below.)

Distributor's Address

Hawkpower have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.

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Water-Cooled Gensets

VOLVO PENTA POWERED BY VOLVO ENGINES

50 Hz; 1500 r/min; power outputs: 75–300 kVA (Prime)

Water-cooled generating sets with electronic control module



Acoustic Set

Features:

- ◆ 75 - 300 kVA
- ◆ 50 Hz at 1500 r/min
- ◆ Volvo 4 or 6 cylinder engines
- ◆ Open or acoustic options
- ◆ Base mounted fuel tank
- ◆ Lifting frame
- ◆ Anti-vibration mounts
- ◆ 4-pole, single bearing alternators
- ◆ Crank case heating
- ◆ Digital control module