

## Volvo Powered Generating Sets 85 to 670 kVA



**FW Power** is a leading supplier of Engines and Generators. All of our Generators are manufactured in the UK using only the highest quality component suppliers. Each manufacturer offers global warranties and aftermarket support through an experienced network of distributors and dealers. All Generators are extensively tested ensuring optimum performance, high reliability and low service intervals. **FW Power** offers complete project packages from ex-works supply to multi-set synchronising design build systems that use diesel, gas and CHP Generators.

### Engine, Baseframe and Radiator:

- Volvo Stage 2 water cooled diesel engine naturally aspirated or turbo charged, governing to ISO8528-5 class G3.
- Mechanical or electronic engine management system (see scope of supply).
- Replaceable filter elements for fuel, oil and air.
- 12 or 24 volt DC electrical system (see scope of supply).
- Heavy duty tropical radiator complete with fan and stone-guards.
- 8 hour capacity base fuel tank with steel wire braided fuel lines.
- Built in anti-vibration mounts.
- Yuasa brand lead acid batteries.
- Industrial exhaust silencer with flexible bellows supplied loose.
- Full set of user manuals.
- Standard ISO8528 factory test.

### Alternator:

- Single bearing close coupled alternator.
- Class H tropical insulation system.
- Brushless, self exciting with solid state AVR.
- Voltage regulation to within 1.5% at full load.
- Fully enclosed to IP 23 with drip proof air ducts.

### Rating Definitions:

**Prime Power: Variable Load:** Unlimited hours usage with an average load factor of 70% of the published prime power rating over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.

**Standby Power: Variable Load:** Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload permitted.

Ratings are at 0.8 power factor three phase; 1.0 power factor single phase: To ISO 8528 -1, ISO 3046, BS 5514 and DIN 6271, 25°C (77°F) air inlet temperature, 99kPA barometric pressure (110m (361ft) altitude) and 30% relative humidity. Derating may be required for conditions outside these parameters.

### Control Panel and Circuit Breaker:

- Set mounted Auto Mains (utility) Failure control module fitted as standard.
- Start / stop / auto / manual selection.
- Low oil pressure, high engine temperature and over-speed protection as standard.
- Configurable generator maintenance intervals to maximise engine performance.
- Seven configurable inputs.
- Eight configurable outputs.
- Configurable timers and alarms.
- Event log of fault, time and date.
- USB connectivity.
- Panel manufactured to BS EN 60950, BS EN 61000-6-2 and 4 BS EN 60068 2-1 / 2-2 / 2-6 / 2-27.
- 1A – 8,000A primary rating, 5A secondary rating.
- 3 pole MCCB.

### Acoustic Enclosure (Optional):

- Bolted construction.
- Barafoam acoustic insulation material.
- Lockable hinged doors.
- Centre point or 4 point canopy lift.
- Gloss powder coat paint finish.



## FW Power Volvo Powered Generating Sets Summary Data Sheet (Meccalte)

(Contact **FW Power** for Newage Stamford alternators)



Generator Model	kVA		Engine Data					Alternator Model	Open Generator				Silent Generator				
	Prime Power	Standby Power	Model	Arrangement	Displ (Litres)	Aspiration	Fuel Cons (Litres/hr)		Length (cm)	Width (cm)	Height (cm)	Weight (Kg)	Type	Length (cm)	Width (cm)	Height (cm)	Weight (Kg)
VFW 85	85	93	TAD530GE	4 In-Line	4.8	Turbo A	22.5	ECO34-1S	204	73	165	1150	Canopy	300	95	190	1640
VFW 130	130	143	TAD532GE	4 In-Line	4.8	Turbo A	29.5	ECO34-2L	230	75	175	1530	Canopy	290	95	190	2050
VFW 150	150	164	TAD731GE	6 In-Line	7.1	Turbo A	34.1	ECO34-2L	250	87	175	1580	Canopy	345	115	187	2140
VFW 180	180	196	TAD732GE	6 In-Line	7.1	Turbo A	40.7	ECO38-1SN	251	101	194	1720	Canopy	345	115	187	2280
VFW 200	200	220	TAD733GE	6 In-Line	7.1	Turbo A	45.8	ECO38-2SN	255	101	194	1770	Canopy	345	115	187	2330
VFW 250	250	275	TAD734GE	6 In-Line	7.1	Turbo A	54.0	ECO38-1LN	264	106	186	2240	Canopy	400	115	201	3090
VFW 300 <sup>(2)</sup>	300	330	TAD941GE	6 In-Line	9.4	Turbo A	63.5	ECO38-2LN	290	111	199	3050	Canopy	400	115	201	3900
VFW 325	325	360	TAD941GE	6 In-Line	9.4	Turbo A	69.0	ECO38-3LN	290	111	199	3150	Canopy	400	115	201	4000
VFW 350	350	370	TAD1342GE	6 In-Line	12.8	Turbo A	69.9	ECO38-3LN	298	111	216	3460	Canopy	400	115	201	4310
VFW 375	375	412	TAD1343GE	6 In-Line	12.8	Turbo A	75.4	ECO40-1S	311	111	217	3460	Canopy	438	125	222	4460
VFW 400	400	437	TAD1344GE	6 In-Line	12.8	Turbo A	81.2	ECO40-1S	314	111	217	3580	Canopy	438	125	222	4580
VFW 450	450	491	TAD1345GE	6 In-Line	12.8	Turbo A	92.7	ECO40-2S	329	129	224	4200	Canopy	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>
VFW 500	500	546	TAD1641GE	6 In-Line	16.1	Turbo A	103.3	ECO40-3S	329	129	224	4200	Canopy	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>
VFW 570	570	627	TAD1642GE	6 In-Line	16.1	Turbo A	116.0	ECO40-1.5L	329	129	224	4350	Canopy	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>
VFW 620	620	670	TWD1643GE	6 In-Line	16.1	Turbo W	127.0	ECO40-1.5L	348	134	227	4950	Canopy	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>	<sup>(1)</sup>

Ratings are for 50 Hz, 380 - 415 volts three phase.

<sup>(1)</sup> Please contact **FW Power**.

<sup>(2)</sup> 400 & 415 volts only.

Turbo A - Turbocharged, air to air aftercooler / Turbo W - Turbocharged, air to water aftercooler.

Fuel consumption is based upon prime power at 100 % load. (Fuel consumption will vary depending upon fuel specific gravity and quality).

Issue 2.0 All products and specifications are subject to manufacturers variations. Information in **FW Power** data sheets is for guidance only.

<b>FW Power Volvo Powered Generators Scope of Supply with 7120 Control Panel</b>	<b>VFW 85 VFW 150</b>	<b>VFW 130</b>	<b>VFW 180 VFW 200</b>	<b>VFW 250 to VFW 620</b>
Tropical Radiator	STD	STD	STD	STD
Fan Guard	STD	STD	STD	STD
Radiator Matrix Guard	STD	STD	STD	STD
Air, Fuel and Oil Filters	STD	STD	STD	STD
Governor Type	MECHANICAL	ECU	ECU	ECU
DC System 12/24V	12	12	24	24
Low Oil Protection	STD	STD	STD	STD
High Engine Temperature Protection	STD	STD	STD	STD
Overspeed Protection	STD	STD	STD	STD
Low Coolant Level Protection	STD	STD	STD	STD
DC Wiring	STD	STD	STD	STD
8 Hour Capacity Base Fuel Tank	STD	STD	STD	STD
Steel Wire Braided Fuel Lines	STD	STD	STD	STD
Fuel Contents Gauge	STD	STD	STD	STD
Anti Vibration Mounts Between Generator and Baseframe	STD	STD	STD	STD
Yuasa Brand Lead Acid Battery	STD	STD	STD	STD
Exhaust Flexible Section	STD	STD	STD	STD
Industrial Exhaust Silencer	STD	STD	STD	STD
Standard ISO8528 Works Test	STD	STD	STD	STD
Standard Paint Finish	STD	STD	STD	STD
User Manual	STD	STD	STD	STD
Control Panel Mounted on Anti Vibration Mounts			STD	
<b>DSE Control Panel</b>			<b>7120</b>	
Monitoring			LCD DISPLAY	
Start / Stop / Auto / Manual Selection			VIA SOFT TOUCH MEMBRANE BUTTONS ON PANEL FASCIA	
Generator Amps			STD	
Generator Volts			STD	
Generator Frequency			STD	
Engine Speed			STD	
Engine Oil Pressure			STD	
Engine Water Temperature			STD	
Battery Volts			STD	
Mains Volts			STD	
Mains Frequency			STD	
Hours Run			STD	
DSE Contant Potential Battery Charger with On / Off Switch			OPTIONAL	
3 Pole MCCB			REFER TO NOTE BELOW	
Overspeed Protection			STD	
Low Coolant Level Protection			STD	
High Engine Temperature Protection			STD	
Low Oil Pressure Protection			STD	
Charge Fail Indication			STD	
Event Logging			STD	
Engine Exercise Mode			STD	
Maintenance Scheduling			STD	
Emergency Stop Button			STD	
<b>Amps (Prime Power)</b>			<b>Guide to Control Panel and Circuit Breaker</b>	
Upto 250 A			Alternator mounted panel with MCB/MCCB internally mounted (MCB fitted upto 100 Amps)	
250 - 913 A			Alternator mounted panel with alternator mounted MCCB	
914 A to 1600 A			Alternator mounted panel with MCCB optional (set mounted)	
Over 1600 A			Alternator mounted panel with ACB optional (freestanding cubicle)	

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