



Forest City™
GENERATORS
The Power to Deliver



Specification for Volvo Penta Powered Generators

Specification Sheet

	TAD530/531/532 and 731GE	TAD732/733/734/940/941/1240/1241/1242/1640/1641/1642GE and TWD1643GE
Set mounted tropical radiator	Standard	Standard
Engine driven cooling fan with protection guard and radiator stone guard	Standard	Standard
Fuel, lubricating oil and air filters(s) with restriction indicator(s)	Standard	Standard
Fuel pre-filter/water separator	Standard	Standard
Mechanical Governing at 1500/1800rpm in accordance with BS5514 A1	Standard	Not applicable
Volvo computerised engine management system with plug-in diagnostic socket	Not applicable	Standard
Cummins Generation Technologies Stamford single bearing brushless alternator with standard AVR	Standard	Standard
Leroy Somer or Mecc Alte single bearing brushless alternator with standard AVR	Optional	Optional
Formed steel fuel tank baseframe with a minimum of 8 hours full load running capacity	Standard	Standard
Mechanical dial type fuel contents gauge, fuel fill, vent and drain fittings	Standard	Standard
Steel wire braided fuel supply and fuel return line	Standard	Standard
Anti vibration mountings between the engine/alternator assembly and the baseframe	Standard	Standard
Anti vibration mountings beneath the baseframe	Optional	Optional
SLS type exhaust silencer(s) supplied loose with flexible section and mating connections	Standard	Standard
Set mounted Lucas dry charged battery installed with leads and terminals 12 volt system	Standard	Not applicable
Set mounted Lucas dry charged batteries installed with leads and terminals 24 volt system	Optional	Standard
Comprehensive function tests and tested to 110% of full load	Standard	Standard
Thorough pre-despatch quality control inspection	Standard	Standard
Paint finish to our standard scheme	Standard	Standard
Paint finish to customers requirements	Optional	Optional
Owners manuals as provided by Volvo and Cummins Generation Technologies	Standard	Standard
Wiring Diagram and operating instructions	Standard	Standard
Engine mounted oil sump drain pump – manually operated	Standard	Standard
Workshop manual as provided by Volvo	Optional	Optional
Fuel transfer kit with electric pump, high & low level switches and automatic top-up controls	Optional	Optional
Mains operated engine coolant heater	Optional	Optional
Mains operated alternator anti-condensation heaters	Optional	Optional
Heavy duty steel channel open baseframe	Optional	Optional
Acoustic exhaust silencer(s) supplied loose with flexible section and mating connections	Optional	Optional
Weatherproof enclosure soundproofed to 85dba at one metre with perspex control panel viewing window	Optional	Optional
Weatherproof enclosure soundproofed to 75dba at one metre with perspex control panel viewing window	Optional	Optional
Fitted into a specially modified sound attenuated ISO container	Optional	Optional
CE/EMC Upgrade to European Community requirements	Optional	Optional
Tool kit	Optional	Optional
Trailer mounted	Optional	Optional



In the interest of continued product development and improvement, Forest City reserves the right to amend any of the above mentioned details without prior notice.

Component information is available from the following websites:

Volvo: <http://www.volvo.com/volvopenta/global/en-gb/industrialengines/powergeneration/>
 Deep Sea Electronics: <http://www.deepseapl.com/>
 Sea Electronics: <http://www.deepseapl.com/>



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Control Panel Specification

	Key Start Panel	Autostart panel for use with a separate automatic transfer switch (ATS)	Automatic Transfer Switch (ATS) panel for use with autostart panel	Automatic Mains Failure (AMF) Panel – combining Autostart and ATS in one panel
Control panel mounted above the alternator on anti-vibration mountings	Standard	Standard	Optional	Optional
Control panel powder coated for corrosion proofing and environmentally protected	Standard	Standard	Standard	Standard
Remote mounted control panel (the autostart and ATS may be combined in one panel)	Optional	Optional	Standard	Optional
Moving iron analogue voltmeter with 7 position selector switch. Phase/Phase & Phase/Neutral 72mm x 72mm	Standard	Standard	Optional	Standard
Moving iron analogue ammeter. One per phase 72mm x 72mm. Current transformers are used above 75 amps	Standard	(530, 531, 532 and 731 engines only)	Optional	(530, 531, 532 and 731 engines only)
Dual scale analogue meter displaying both alternator frequency and engine rpm 72mm x 72mm (not fitted with Deep Sea 5110/5210/5220/550 modules)	Standard	Standard	Optional	Standard
Set mounted 3 pole Miniature Circuit Breaker (MCB) up to 63 Amps	Standard	Standard	Optional	Standard
Set mounted 3 pole Moulded Case Circuit Breaker (MCCB) from 63 amps to 909 amps	Standard	Standard	Optional	Standard
Set mounted 3 pole Moulded Case Circuit Breaker (MCCB) from 909 amps to 1600 amps	Standard	Optional	Optional	Optional
Set mounted 3 pole Air Circuit Breaker (ACB) 2000 amps and above	Standard	Optional	Optional	Optional
Mechanically and electrically interlocked changeover contactors up to 909 amps (1000 amp contactor rating)	Not Applicable	Not Applicable	Standard	Standard
Mechanically & electrically interlocked motorised MCCB from 1000 amps & 1250 amps	Not Applicable	Not Applicable	Standard	Standard
Mechanically & electrically interlocked motorised ACB 1600 amps and above	Not Applicable	Not Applicable	Standard	Standard
Supplied without circuit breaker at reduced cost	Optional	Optional	Not Applicable	Optional
Deep Sea 701 electronic key operated engine start module 72mm x 72mm (530, 531, 532 and 731 engines only)	Standard	Not Applicable	Not Applicable	Not Applicable
Key start/stop switch and individual indicators for each alarm function (all except 530, 531, 532 and 731 engines)	Standard	Not Applicable	Not Applicable	Not Applicable
Engine protection against low oil pressure, high engine temperature and overspeed with indicators	Standard	Standard	Not Applicable	Standard
Low coolant level warning and shutdown	Standard	Standard	Not Applicable	Standard
Deep Sea 521K electronic autostart module with key operated mode selector switch 96mm x 96mm with multi attempt start and adjustable timers for delay on start, delay on restoration of mains supply, engine run on for cooling, crank period, protection override. (530, 531, 532 and 731 engines only)	Not Applicable	Standard	Not Applicable	Standard
Programmable Deep Sea 5310 electronic start module 240mm x 172mm with indication of operational status, fault conditions, engine and generator instrumentation. (all except 530, 531, 532 and 731 engines)	Not Applicable	Standard	Not Applicable	Standard
Alternative Deep Sea Electronics Modules	Optional	Optional	Not Applicable	Optional
Hours run meter	Standard	Standard	Optional	Standard
Battery voltmeter	Standard	(530, 531, 532 and 731 engines only)	Optional	(530, 531, 532 and 731 engines only)
Analogue lubricating oil pressure gauge – electrically operated	Standard	Standard	Optional	Standard
Analogue water temperature gauge – electrically operated	Standard	Standard	Optional	Standard
Phase failure and phase sequence monitor (this actuates the autostart function) not with 5220 module	Optional	Optional	Standard	Standard
Indicator lights for mains available, mains on load, generator available, generator on load	Not Applicable	Not Applicable	Standard	Standard
Mains operated constant potential battery charger with on/off push button switch	Optional	Standard	Not Applicable	Standard
Mains operated constant current battery charger with boost switch	Optional	Optional	Not Applicable	Optional
Keystart module for remote start	Optional	Not Applicable	Not Applicable	Not Applicable
Tachometer indicating the engine rpm	Optional	Optional	Not Applicable	Optional
Mains failure simulation keyswitch	Not Applicable	Optional	Optional	Optional
Weekly (infinitely adjustable) exerciser clock for automatic test running autostart sets off load	Not Applicable	Optional	Not Applicable	Optional
Analogue lubricating oil temperature gauge	Optional	Optional	Optional	Optional
Analogue exhaust gas temperature gauge	Optional	Optional	Optional	Optional
Low fuel level indication (can be wired to shut down the generator)	Optional	Optional	Optional	Optional
Fire valve with indication (normally wired to shut down the generator)	Optional	Optional	Optional	Optional
Overcurrent indication (can be wired to shut down the generator)	Optional	Optional	Optional	Optional
Emergency stop button	Optional	Optional	Optional	Optional
Audible alarm on fault	Optional	Optional	Optional	Optional
Kilowatt meter – space limitations require require a wall mounted or floor mounted panel – standard with certain control module options	Optional	Optional	Optional	Optional
Kilowatt-hour meter – space limitations require require a wall mounted or floor mounted panel – standard with certain control module options	Optional	Optional	Optional	Optional
Power factor meter – space limitations require require a wall mounted or floor mounted panel – standard with certain control module options	Optional	Optional	Optional	Optional
Earth fault protection – standard with certain control module options	Optional	Optional	Optional	Optional
Over/Under voltage monitor – standard with certain control module options	Optional	Optional	Optional	Optional
Under frequency protection – standard with certain control module options	Optional	Optional	Optional	Optional
Voltage trimmer rheostat fitted in the control panel (this is an alternative to the trimmer fitted to the AVR) – standard with certain control module options	Optional	Optional	Optional	Optional
Control panel anti – condensation heater	Optional	Optional	Optional	Optional



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COLOUR CODES: ■ Standard ■ Optional ■ n/a not applicable



Volvo Powered Diesel Generators 50Hz 1500rpm



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Model	Prime Power		Stamford Alternator Frame Size	Standard AVR (Upgrade available)	Fuel Ltrs/hr	Fuel Tank Capacity	Engine Model	Cylinders	Cubic Capacity	Governor	Open Set Dimensions Length x Width x Height	Nett Weight	Soundproofed Dimensions Length x Width x Height	Nett Weight
	kVA	kW												
V84T	84	67.2	UCD224G	SX460	18.4	260 litres	Volvo TAD530GE	4 in line	4.76 litres	Mechanical	204cm x 73cm x 165cm	1150kgs	300cm x 95cm x 190cm	1640kgs
V99T	99	79.2	UCI274C	SX460	21.4	260 litres	Volvo TAD531GE	4 in line	4.76 litres	Mechanical	204cm x 73cm x 165cm	1210kgs	300cm x 95cm x 190cm	1700kgs
V128T	128	102	UCI274E	SX460	28.4	260 litres	Volvo TAD532GE	4 in line	4.76 litres	Mechanical	230cm x 75cm x 175cm	1530kgs	290cm x 95cm x 190cm	2050kgs
V150T	150	120	UCI274F	SX460	33	533 litres	Volvo TAD731GE	6 in line	7.15 litres	Mechanical	250cm x 87cm x 175cm	1580kgs	345cm x 115cm x 187cm	2140kgs
V180T	180	144	UCI274G	SX460	40	533 litres	Volvo TAD732GE	6 in line	7.15 litres	EEMS	251cm x 101cm x 194cm	1720kgs	345cm x 115cm x 187cm	2280kgs
V200T	200	160	UCI274H	SX460	45	533 litres	Volvo TAD733GE	6 in line	7.15 litres	EEMS	255cm x 101cm x 194cm	1770kgs	345cm x 115cm x 187cm	2330kgs
V250T	250	200	UCD274K	SX460	52	533 litres	Volvo TAD734GE	6 in line	7.15 litres	EEMS				
V275T	275	220	HCI444D	AS440	57	788 litres	Volvo TAD940GE	6 in line	9.36 litres	EEMS	290cm x 111cm x 189cm	1870kgs	400cm x 115cm x 201cm	3790kgs
V300T	300	240	HCI444D	AS440	67	788 litres	Volvo TAD941GE	6 in line	9.36 litres	EEMS	290cm x 128cm x 199cm	3050kgs	400cm x 115cm x 201cm	3900kgs
V325T	325	260	HCI444E	AS440	67	788 litres	Volvo TAD941GE	6 in line	9.36 litres	EEMS	290cm x 128cm x 199cm	3050kgs	400cm x 115cm x 201cm	3900kgs
V350T	350	280	HCI444E	AS440	67	831 litres	Volvo TAD1240GE	6 in line	12.13 litres	EEMS	298cm x 111cm x 216cm	3460kgs	438cm x 125cm x 222cm	4460kgs
V370T	370	296	HCI444F	AS440	75	831 litres	Volvo TAD1241GE	6 in line	12.13 litres	EEMS	311cm x 111cm x 217cm	3460kgs	438cm x 125cm x 222cm	4460kgs
V400T	400	328	HCI444F	AS440	83	831 litres	Volvo TAD1242GE	6 in line	12.13 litres	EEMS	314cm x 111cm x 217cm	3580kgs	438cm x 125cm x 222cm	4580kgs
V410T	410	328	HCI544C	AS440	83	831 litres	Volvo TAD1242GE	6 in line	12.13 litres	EEMS	314cm x 111cm x 217cm	3580kgs	-	-
V450T	450	360	HCI544C	AS440	91	1242 litres	Volvo TAD1640GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4200kgs	-	-
V460T	460	368	HCI544D	AS440	91	1242 litres	Volvo TAD1640GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4200kgs	-	-
V500T	500	400	HCI544D	AS440	101	1242 litres	Volvo TAD1641GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4200kgs	-	-
V560ST	560*	448*	HCI544E	AS440	111	1242 litres	Volvo TAD1641GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4200kgs	-	-
V570T	570	456	HCI544E	AS440	115	1242 litres	Volvo TAD1642GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4350kgs	-	-
V630T	630	504	HCI544F	AS440	127	1242 litres	Volvo TWD1643GE	6 in line	16.12 litres	EEMS			-	-

All Volvo engines offered above are EU Stage 2 emissions compliant.
EEMS = Electronic Engine Management System.

* = Standby rating Dimensions are for standard key start sets. They are subject to change and are for guidance only. Automatic transfer switch dimensions are available on request. In cases where accurate dimensions are critical, please consult our sales department for an engineering drawing.



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Volvo Powered Diesel Generators 60hz 1800rpm



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Model	Prime Power		Stamford Alternator Frame Size	Standard AVR (Upgrade available)	Fuel Ltrs/hr	Fuel Tank Capacity	Engine Model	Cylinders	Cubic Capacity	Governor	Open Set Dimensions Length x Width x Height	Nett Weight	Soundproofed Dimensions Length x Width x Height	Nett Weight
	kVA	kW												
V87T/60	87	69.6	UCD224F	SX460	18.6	260 litres	Volvo TAD530GE	4 in line	4.76 litres	Mechanical	204cm x 73cm x 165cm	1150kgs	300cm x 95cm x 190cm	1640kgs
V103T/60	103	82.4	UCI274C	SX460	22.3	260 litres	Volvo TAD531GE	4 in line	4.76 litres	Mechanical	204cm x 73cm x 165cm	1210kgs	300cm x 95cm x 190cm	1700kgs
V130T/60	130	104	UCI274D	SX460	29.2	260 litres	Volvo TAD532GE	6 in line	7.15 litres	Mechanical	230cm x 75cm x 175cm	1530kgs	290cm x 95cm x 190cm	2050kgs
V160T/60	160	128	UCI274E	SX460	34	533 litres	Volvo TAD731GE	6 in line	7.15 litres	Mechanical	250cm x 87cm x 175cm	1580kgs	345cm x 115cm x 187cm	2140kgs
V200T/60	200	160	UCI274G	SX460	46	533 litres	Volvo TAD732GE	6 in line	7.15 litres	EEMS	251cm x 101cm x 194cm	1720kgs	345cm x 115cm x 187cm	2280kgs
V230T/60	230	184	UCI274H	SX460	52	533 litres	Volvo TAD733GE	6 in line	7.15 litres	EEMS	255cm x 101cm x 194cm	1770kgs	345cm x 115cm x 187cm	2330kgs
V250T/60	250	200	UCD274J	SX460	54	533 litres	Volvo TAD734GE	6 in line	7.15 litres	EEMS				
V284T/60	284	227	UCD274K	SX460	60	788 litres	Volvo TAD940GE	6 in line	9.36 litres	EEMS	290cm x 111cm x 189cm	1870kgs	400cm x 115cm x 201cm	3790kgs
V340T/60	340	272	HCI444D	AS440	72	788 litres	Volvo TAD941GE	6 in line	9.36 litres	EEMS	290cm x 111cm x 199cm	3050kgs	400cm x 115cm x 201cm	3900kgs
V347T/60	347	278	HCI444D	AS440	73	831 litres	Volvo TAD1240GE	6 in line	12.13 litres	EEMS	298cm x 111cm x 216cm	3460kgs	438cm x 125cm x 222cm	4460kgs
V400T/60	400	320	HCI444E	AS440	82	831 litres	Volvo TAD1241GE	6 in line	12.13 litres	EEMS	311cm x 111cm x 217cm	3460kgs	438cm x 125cm x 222cm	4460kgs
V454T/60	454	363	HCI444F	AS440	94	831 litres	Volvo TAD1242GE	6 in line	12.13 litres	EEMS	314cm x 111cm x 217cm	3580kgs	438cm x 125cm x 222cm	4580kgs
V507T/60	507	405.6	HCI544C	AS440	103	1242 litres	Volvo TAD1640GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4200kgs	-	-
V577T/60	577	461.6	HCI544D	AS440	115	1242 litres	Volvo TAD1641GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4200kgs	-	-
V620T/60	620	496	HCI544E	AS440	130	1242 litres	Volvo TAD1642GE	6 in line	16.12 litres	EEMS	329cm x 129cm x 224cm	4350kgs	-	-
V690T/60	690	552	HCI544E	AS440	141	1242 litres	Volvo TWD1643GE	6 in line	16.12 litres	EEMS			-	-

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