VOLVO PENTA

RPOWER





MODEL RKULSTD 200VL

Standby 200kW/250kVA







Soundproof Generator



Referential Image

RATINGS

Voltage (Ph-Ph/Ph-L)		208/120V	240/120V	480/277V	
Phase		3PH	3PH	3PH	
Power factor	Cos Phi	0.8	8.0	0.8	
Frequency	Hz	60	60	60	
Controlator	Deep Sea Electronics	7320 MKII	7320 MKII	7320 MKII	
Engine	VOLVO PENTA	TAD 851GE	TAD 851GE	TAD 851GE	
Alternator	Stamford	UCD274-K	UCD274-K	UCD274-K	
Leads Connection		12 Lead Parallel Wye	12 Lead Parallel Wye	12 Lead Series Wye	
STANDBY					
Power	kW	200	200	200	
Power	kVA	250	250	250	
Amperage A		694	602	300	
PRIME					
Power	kW	175	175	175	
Power	kVA	219	219	219	
Amperage	Α	569	526	263	

Certifications and Standards

- EPA Tier 3 (Refers to engine emissions control)
- IBC 2021 / ASCE/SEI 7-16 optional (Refers to seismic and wind safety of generator)
- UL 2200 optional (Refers to the generator assembly)
- UL 142 optional (Refers to the design, construction, and testing of the tank)
- **ISO 8528-5 –** optional (Refers to testing for transient response)
- Verified product design, quality, and performance integrity
- All generator systems are prototype and factory tested

Warranty

- 2 years or 2000 hours operational warranty

Prime Power (PRP): According to ISO 8528-1:2018, PRP is the maximum power available for use under variable loads for an unlimited number of hours per year within the manufacturer's prescribed maintenance intervals and under the environmental conditions specified by the manufacturer. The average power consumed over a 24-hour period must not exceed 70% of the PRP.

Emergency Standby Power (ESP): According to ISO 8528-1:2018, ESP is the maximum power available for use under variable loads in the event of a grid power outage or during testing conditions for a limited number of hours per year, specifically 200 hours, within the manufacturer's prescribed maintenance intervals and under the environmental conditions specified by the manufacturer. The average power consumed over a 24-hour period must not exceed 70% of the ESP.

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.



Application **Data**

ENGINE				
Manufacturer Model Configuration Governor isochronous Certification EPA	Volvo Penta TAD 851GE 6 cylinders in line Electronic Tier 3	Displacement Bore x stroke Frequency Speed Compression ratio	L(in3) mm(in) Hz RPM	7.7(470) 110x135(4.33x5.31) 60 1800 17.5:1
FUEL SYSTEM Fuel suction fitting Fuel return fitting Injection type Recommended fuel	3/8" NPT Female 3/8" NPT Female Indirect Diesel # 2 - ULSD	Intake airflow Airflow for radiator Type aspiration	m3/min(CFM) m3/min(CFM)	203(7173) 14.4(509) Turbocharged
LUBRICATION SYSTEM		EXHAUST SYSTE	М	
Total oil capacity L (gal) Recommended oil	27(7.1) SAE 15W-40	Back pressure Exhaust Gas Flow Gas temp. (stack)	kPa (in. H2 0) m3/min (CFM) °C (°F)	10(40) 25.8(910) 480(896)
COOLING SYSTEM		ELECTRIC SYSTE	М	
Coolant capacity L (gal) Ambient Temp. Rad. °C (°F) Recommended coolant	41(10.8) 50(122) 50/50	Starting system	Volt	24
FUEL CONSUMPTION				A
At 100% load L/hr (gal/hr)	STANDBY 55.9(14.8)			



L/hr (gal/hr)

L/hr (gal/hr)

46.4(12.3)

32.1(8.48)

GENERAL INFORMATION

At 75% load

At 50% load

Manufacturer Stamford Model UCD274-K Design 4 Poles | 3/4 pitch | IP23 Temp. Rise | Insulation Type Standby 150/40°C | Class H Exciter system | AVR Self Excited | AS440 (+/-1%)







Control Panel Specifications

DSE7320 MKII is an Auto Start Control Module and is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Featuring a new Dual Core main processor and extended memory, the module provides faster and more powerful processing power, returning faster operational responses on intensive applications and increased functionality, with data logging facility. Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine, alternator status information on the back-lit LCD screen, illuminated LED's, remote PC's and via SMS text alerts (with external communication device).





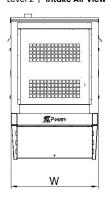
- 1. Control Module **DSE7320 MKII**2. Alarm Buttom
- 3
- 3. Enclosure Galvanneal
- 4. Battery Charger **DEEPSEA**

COMPARISOR	DSE4520 MKII	DSE6320 MKII	DSE7320 MKII	DSE8620 MKII	
GENSET AND MAIN READING					
Voltage between PH-PH / N-PH	Yes	Yes	Yes	Yes	
PF, Hz, kVA, kW, kVAR, A	Yes	Yes	Yes	Yes	
ENGINE READING AND ALARM					
High coolant temperature	Yes	Yes	Yes	Yes	
Low oil pressure, coolant level, fuel level	Yes	Yes	Yes	Yes	
Unexpected shutdown and Stop failure	Yes	Yes	Yes	Yes	
Low battery Voltage	Yes	Yes	Yes	Yes	
Battery charging alternator failure	Yes	Yes	Yes	Yes	
Over and under speed	Yes	Yes	Yes	Yes	
Start failure and emergency stop	Yes	Yes	Yes	Yes	
ALTERNATOR READING AND ALARM					
Overload, Over and Under Frequency	Yes	Yes	Yes	Yes	
Over, Under and Unbalanced voltage	Yes	Yes	Yes	Yes	
Short circuit and reverse power	Yes	Yes	Yes	Yes	
CONNECTIVITY AND PARALLEL					
USB, ECU	Yes	Yes	Yes	Yes	
RS232	No	No	Yes	Yes	
RS485, DSENET	No	Yes	Yes	Yes	
USB HOST, Ethernet RJ45	No	No	No	Yes	
Parallel function	No	No	No	Yes	

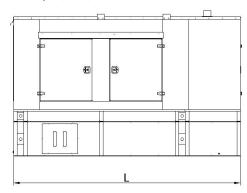


Dimensions, Weight and Sound Level

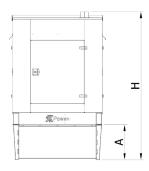
Level 2 | Intake Air View



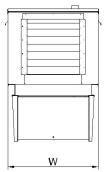
Level 2 | Lateral View



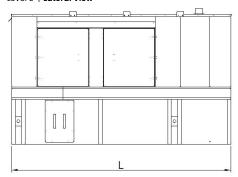
Level 2 | Exhaust View



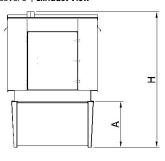
Level 3 | Intake Air View



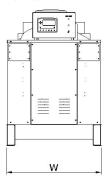
Level 3 | Lateral View



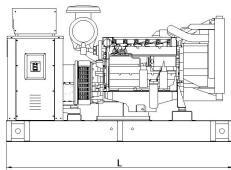
Level 3 | Exhaust View



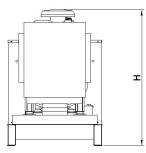
Opentype | Control Panel View



Opentype | Lateral View



Opentype | Radiator View



- Level 2 enclosures include sound attenuation foam (one layer):
- Level 3 enclosures include sound attenuation foam (two layers).
 Enclosure manufactured in Aluminum with a wind rating of 170 MPH, according to IBC 2018 and ASCE/SEI7-16 standards.
 Generator assembly in accordance with UL2200 listed.

			Dimensions, in					Weight	Sound Level
Enclosure	Fuel Tank	Autonomy (hr)	Length (L)	Width (W)	Height (H)	Tank (A)	Exhaust (Ø)	lb	dB(A)@23ft
Level 3	700USG	46	156	73	101	24	6	16200	72
Level 3	1000USG	68	156	73	111	34	6	16000	72
Level 2	700USG	46	156	68	96	24	6	13200	75
Level 2	1000USG	68	156	68	106	34	6	13000	75
Opentype	100USG Daytank	-	108	45	69	-	6	10500	84
Opentype	-	-	108	45	65	-	6	10000	84

- All measurements are approximate and are provided for estimation purposes only. Weights do not include fuel weight.
 Sound levels are measured at 23 feet (7 meters) in accordance with ISO 8528-10.
 Double Wall Fuel Tank manufactured in Steel according to UL142 Listed.



Standard Features

ENCLOSURE

- Aluminium Material
- Stainless steel door hinges
- Stainless steel lockable handles
- Polyurethane sound-attenuating foam
- Gasketed doors
- Rain protection visor

EXHAUST SYSTEM

- Galvanneal Material
- Rain Cap (Exhaust outlet)
- Critical Grade Muffler (enclosed only)
- Stainless Steel flexible exhaust connection Brushless Excitation

FUEL TANK

- Mild Steel Material
- Mechanical Fuel Gauge
- Internal wall drainage fitting
- External wall drainage fitting
- Spare: Coupling 3/8" NPT Suction / Return
- Spare: 2" NPT male nipple
- Spare: 2" NPT Female Coupling

ALTERNATOR

- Class H insulation material
- 2/3 Pitch

GENERATOR SET

- Internal Genset Vibration Isolation
- Emergency Stop Button
- Heavy Dutty Battery
- Standard Factory Test
- 2 years/2000 hours operational warranty

FNGINE

- Oil Drain Valve
- Coolant Drain Valve
- Flexible Fuel Line NPT Connection
- Air cleaner
- SAE 3-11 1/2

Configurable Options

GENERATOR SET

- Open Type
- Mobile Type
- Antiseismic Isolators

ENCLOSURE

- Stainless Steel Material
- Removable Doors

FUEL TANK

- Stainless Steel Material
- Digital Fuel Gauge
- Low / High Fuel Alarms
- Rupture Switch
- External Main Fuel Tank
- External Daytank

EXHAUST SYSTEM

- Stainless Steel Material Muffler
- Critical Exhaust Muffler (Open Set Only)

ELECTRICAL SYSTEM

- Battery Charger 2 units parallel for 10A

ENGINE

- Kit Spare Parts
- Fluid Containment Pan

ALTERNATOR

- Upsize Alternator
- AVR PMG
- Heater anticondensation 120V
- AVR Digital
- Droop CT for Parallelism

CIRCUIT BREAKER

- Electronic: trip unit 40-100% rated
- Motorized Circuit Breaker for Parallelism

CONTROL SYSTEM

- DSE8620 Parallel controller
- DSE890 Remote Communication
- Remote Annunciator

AUTOMATIC TRANSFER SWITCH (ATS)

- Switch 100-3000A
- Enclosure NEMA 3R / Galvanneal
- Enclosure NEMA 4X / Stainless Steel
- Enclosure NEMA 1



