



AKSA Power Generation has been producing industrial generator sets with an innovative compact design and excellence in quality for over 30 years. AKSA has been providing reliable power through three main production plants and over 15 branch offices worldwide.

General Characteristics

Model Name APD-ULV250

Engine Make Volvo

Engine Model TAD1350GE

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 71/72



Genset Rating

Engine	Alternator	Voltage	Standby Power	Power Factor	Standby Current
TAD1350GE	HCI434D (Wnd-311)	480 / 277V	250kW	0.8	376A
	HCI434D (Wnd-311)	240 / 120V	250kW	0.8	752A
	HCI434D (Wnd-311)	208 / 120V	250kW	0.8	867A
	HCI434D (Wnd -17)	600 / 347V	250kW	0.8	301A

*EPA – Certified for Emergency Stationary Applications

Stand-by Power (Maximum): Power available at variable load in the event of main power network failure. No over load is permitted.

Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation. The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528/5 & ISO3046.

Derating may be required for conditions outside of the test conditions.

Codes & Standards

The Generator set is designed and manufactured in a facility certified to ISO9001 standards.

The Generator set is designed and manufactured in a facility certified to ISO14001:2015 standards.

AKSA Power Generation provides **single source responsibility** for the generator set & accessories.

The generator set, with its components, are **prototype tested** and **production tested** according to the UL test program.

The generator set meets **NFPA70**, **99**, **110**, **37** Level 1 when equipped with the necessary accessories and installed per NFPA standards.



















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Engine	Data

Manufacturer Volvo Penta

Model TAD1350GE

Displacement & Cylinders 12.78 L / 6 Cylinders

Engine Speed 1800rpm

Engine Standby Power w/Fan 269 kW

Engine Prime Power w/Fan 245 kW

Aspiration Turbocharged

Compression Ratio 18.1:1

Bore / Stroke 131 mm / 158 mm

Effective Mean Pressure,
1.5 Mpa

Standby Power

Max Combustion Pressure, Standby Power 12 Mpa

Starrasy 1 o Wei

Total Mass Moment of Inertia 3.43 kgm²

Friction Power 44 Kw

Wet Weight – Engine Only 2921 lb

Wet Weight – GenPac 3946lb

Engine Crankcase Vent System Open

Fuel System

Injection Pump Type Delphi / E3

System Supply Flow 23.5 gal/h

System Return Flow 4.8 gal/h

Max Allowable Inlet Fuel Temp 140°F

Fuel Consumption

Standby Power (100%) 17.9 gal/h

Standby Power (75%) 13.7 gal/h

Standby Power (50%) 9.3 gal/h

Standby Power (25%) 5.6 gal/h

Electric System

Voltage & Type 24V, Insulated from Earth

Alternator Make / Output Bosch / 80A

Battery Qty, Rating 2 x 120Ah

Cooling System

Radiator Cooling System Type Closed Circuit

Fan Power Consumption 12 kW

Coolant Capacity 6.34 gal

Max Top Tank Temperature 225 °F

Thermostat, Start – Fully Open 180 – 198 °F

Exhaust System

Exhaust Gas Temp 824 °F

Max Allowable Back Pressure 10 kPa

Exhaust Gas Flow 1928 cmf

Air Intake System

Air Consumption 840 cfm

Max Intake Air Restriction 5 kPa

Air Filter Type Single Stage Paper Cartridge

Lubrication System

Total System Capacity 9.5 gal

Sump Capacity Max / Min 7.9 gal / 5.0 gal

Max Oil Temp 266 °F

Oil Pressure at Rated Speed 54 – 75 PSI

Oil Consumption 0.011 gal/h







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А	lternator	Data

Stamford Manufacturer BS EN 60034 Standards Control System **PMG** A.V.R. MX341 Voltage Regulation \pm 1 % Class H **Insulation System** Protection IP23 Rated Power Factor 0.8 Stator Winding **Double Layer Concentric** Two Thirds Winding Pitch Winding Leads 12 THF < 2 % **Telephone Interference** Waveform Distortion No Load < 1.5 % 2250 rev/min

Battery Charger & Electrical System Data

Manufacturer	ComAp
Model	InteliCharger
Input Voltage	85V ~ 264V AC
Output Voltage / Current	27.2V Float / 2.5A pk

Iacket Water Heater Data

Maximum Over speed

Jacket Water Heater Data				
Manufacturer	Hotstart			
Model	CTM25210-N00			
Input Voltage	240V			
Power	2500W			

Controller Data

Manufacturer DSE Model 7320 MK II

Controller Features & Benefits

Microprocessor controlled, UL & NFPA110 Compatible License free PC Software (Non-proprietary Software) IP65 rating offers increased resistance to water ingress Modules can be integrated to building management systems Real time clock provides accurate event log Four line back-lit LCD text display Five key menu navigation, two wire start/stop at Auto mode Front panel editing with PIN protection Support up to three remote display modules Configurable timers and alarms Multiple date and timer scheduler Integral PLC editor 'Protections disabled' feature Load switching (load shedding and dummy load outputs)

Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software **Protection Instruments** Gen. Voltage - under / over Gen. Voltage (L-L/L-N) Gen. Freq. – under / over Gen. Frequency Engine Speed – under / over Engine speed Engine Oil Pressure – low Oil Pressure Engine Temp – low / high Water Temperature Battery Voltage - low / high **Battery Voltage** Weak Battery Run Time Fail to Start / Stop Phase Sequence Power monitoring **Charge Alternator Fail** (kWh/kVAh/kVArh) Over Current & Load Power (kW/kVAr) (kWh/kVAh/kVArh) Unbalanced Load **Power Factor Independent Earth Fault Generator Current**

Reverse Power

Loss of Speed Signal

Generator Load (%)

Earth Current



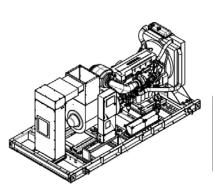
Enclosure Features

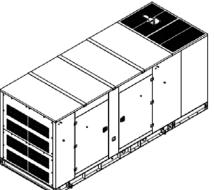
- ✓ Heavy Duty Steel / Aluminum Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

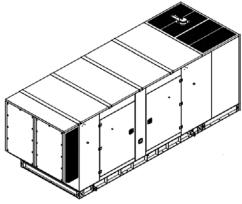
Enclosure Features

- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Removable Base Frame Lifting Hooks
- ✓ Oil & Coolant Drain Ports
- ✓ Easy Access for Maintenance

Open Skid Gen		Level 1 Enclosure		Level 2 Enclosure	
Length	157 in	Length	205 in	Length	205 in
Width w/o lift hooks	75 in	Width w/o lift hooks	75 in	Width w/o lift hooks	75 in
Height	78 in	Height	88 in	Height	112 in
Dry Weight	6200 lb	Dry Weight	8800 lb	Dry Weight	9550 lb
		Sound Pressure @ 7 meters	TBD dB(A)	Sound Pressure @ 7 meters	TBD dB(A)







Fuel Tank - UL142 Listed Base Design

Size	24hr (425gal)	48hr (900gal)	72hr (1300gal)
Dimensions (L/W/H) (in)	205 / 75 / 16	205/75/29	225 / 75 / 36
Weight (lb)	2700	3500	4250



Standard Features & Accessories

- ✓ UL2200 Certification
- ✓ Heavy Duty Steel Base Frame
- ✓ PMG w/MX341 AVR
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Anti Vibration Pads between Engine/Alternator & Base Frame
- ✓ Critical Grade Silencer Inside Enclosure
- ✓ Residential Grade Silencer Set for Open Skid Sets
- ✓ Exhaust outlet rain cap and radiator fill cap
- ✓ Sound Absorb Foam Material for Enclosure
- ✓ Emergency Stop Button
- ✓ Oil Drain Valve
- ✓ Coolant Drain Valve
- ✓ Jacket Water Heater Isolation Valves
- ✓ Flex Fuel Lines
- ✓ Air Filter Restriction Gauge
- ✓ Engine Manifold Cover
- ✓ Turbocharger Cover
- ✓ Protection Covers for Rotating Parts
- ✓ Exhaust Insulation Cover
- ✓ Enclosure DC Light
- ✓ Operations Manual
- ✓ 24 Months / 2000 hours Limited Standby Warranty

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Optional Accessories

- ☐ Main Line CB (3 / 4 Poles 80% / 100% rated)
- Upsize Alternator
- □ Voltage Regulation ±0.5% w/MX321 AVR
- Anti-condensation Heater
- ☐ Sub Base Fuel Tank (UL142 / UL2085)
- ☐ Fuel Level Display & Alarm on Controller
- ☐ Low / High Fuel Alarms
- ☐ Fuel Water Separator Filter
- Auto Fuel Fill Control System
- ☐ Oil Temperature Display on Controller
- ☐ Manual Speed Adjust Rheostat
- ☐ Manual Voltage Adjust Rheostat
- ☐ Remote Annunciator Panel
- ☐ Remote Control & Monitoring Panel
- □ Advanced SMS Messaging
- □ Control Panel Heater
- Battery Disconnect Switch
- Battery Heater
- ☐ Battery Charger 10/20 Amp
- ☐ Shunt Trip / Aux Contacts
- ☐ Spring Anti-vibration Isolators
- □ Automatic Transfer Panel (ATS)
- ☐ 5 Years / 2000 hours Limited Comprehensive Warranty

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