



**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.



Ger	ıset	Ка	tıng

Engine	Alternator	Voltage	Standby Power	Power Factor	Standby Current
	HCI534F (Wnd-311)	480 / 277V	600kW	0.8	902A
TWD1643GE	HCI534F (Wnd-311)	240/120V	600kW	0.8	1804A
	HCI534F (Wnd-311)	208 / 120V	600kW	0.8	2081A
	HCI534E (Wnd-17)	600 / 347V	600kW	0.8	721A

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.











\*Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

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Engine Data		Electric System	
Manufacturer	Volvo Penta	Voltage & Type	24V, Insulated from Earth
Model	TWD1643GE	Alternator Make / Output	Bosch / 80A
Displacement & Cylinders	16.12 L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 120Ah, 850CCA
Engine Speed	1800rpm		
Engine Standby Power w/Fan	644 kW	Cooling System	
Engine Prime Power w/Fan	585 kW	Radiator Cooling System Type	Closed Circuit
Aspiration	Turbocharged	Fan Power Consumption	30 kW
Compression Ratio	16.5:1	Coolant Capacity	12.68 gal
Bore / Stroke	144 mm / 165 mm	Max Top Tank Temperature	103 °C
Effective Mean Pressure, Standby Power	2.8 Mpa	Thermostat, Start – Fully Open	180–198 °F
Max Combustion Pressure, Standby Power	19.8 Mpa	Thermostat, start Puny Open	100 190 1
Total Mass Moment of Inertia	4.20 kgm <sup>2</sup>	Exhaust System	
Friction Power	55 kW	Exhaust Gas Temp	461 °C
Wet Weight – Engine Only	3902 lb	Max Allowable Back Pressure	10 kPa
Wet Weight – GenPac	5225 lb	Exhaust Gas Flow	130.1 m³/min
Engine Crankcase Vent System	Open	Exilaust Gas Flow	130.1 111-7 111111
Fuel System		Air Intake System	
Injection Pump Type	Delphi / E3	Air Consumption	54.85 m³/min
System Supply Flow	210 L/h	Max Intake Air Restriction	5 kPa
System Return Flow	25 L/h	Air Filter Type	Single Stage Paper Cartridge
Max Allowable Inlet Fuel Temp	60 °C	Lubrication System	
Fuel Consumption		Total System Capacity	12.7 gal
Standby Power (110%)	40.8 gal/h	Sump Capacity Max / Min	11.1 gal / 8.5 gal
Standby Power (75%)	29.7 gal/h	Max Oil Temp	130 °C
Standby Power (50%)	20.0 gal/h	Oil Pressure at Rated Speed	300 – 650 kPa
Standby Power (25%)	11.0 gal/h	Oil Consumption	0.029 gal/h

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Alternator Data		Controller Data		
Manufacturer	Stamford	Manufacturer	DSE	
Standards	BS EN 60034	Model	7320	
Control System	Self Excited	Туре	Auto Mains Failure Control	
A.V.R.	MX341			
Voltage Regulation	± 1 %	Controller Features & Ben	efits	
Insulation System	Class H	Microprocessor controlled		
Protection	IP23	License free PC Software		
Rated Power Factor	0.8	IP65 rating offers increased resistance to water ingress		
Stator Winding	Double Layer Concentric	Modules can be integrated to building management systems		
Winding Pitch	Two Thirds	Real time clock provides accurate event log		
Winding Leads	12	Four line back-lit LCD text display		
Telephone Interference	THF < 2 %	Five key menu navigation		
Waveform Distortion	No Load < 1.5 %	Front panel editing with PIN prote	ection	
Maximum Over speed	2250 rev/min	Support up to three remote displa	y modules	
_		Configurable timers and alarms		
Battery Charger & Electric	cal System Data	Multiple date and timer scheduler		
Manufacturer	ComAp	Integral PLC editor		
Model	InteliCharger	'Protections disabled' feature		
Input Voltage	85V ~ 264V AC	kW & kVAr protection		
Output Voltage / Current	27,2V Float / 2.5A pk	Reverse power (kW & kVAr) prote	ation	
Jacket Water Heater Data		Power monitoring (kWh, kVAr, kV	'Ah, kVArh)	
Manufacturer	Hotstart	Load switching (load shedding and	d dummy load outputs)	
Model	CTM25110-Noo	Unbalanced load protection		
Input Voltage	120V	Independent Earth Fault trip		
Power	2500W	Fully configurable via DSE Config	uration Suite PC Software	
	-			

SCADA monitoring via DSE Configuration Suite PC Software

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#### **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

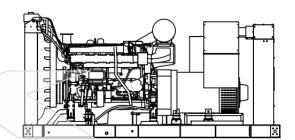
#### **Open Skid Gen-Set Dimensions**

Length 157.5 in

Width w/o lift hooks 75 in

Height 76.8 in

Dry Weight 9745 lb



#### **Enclosed Gen-Set Dimensions - Level 1**

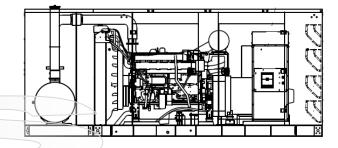
Length 205.5 in

Width w/o lift hooks 74.8 in

Height 89.9 in

Dry Weight 14690 lb

Sound Pressure @ 7 meters 80 dB(A)



#### **Enclosed Gen-Set Dimensions – Level 2**

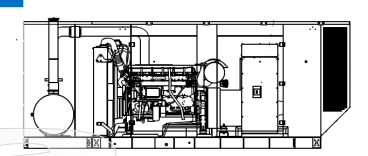
Length 205.3 in

Width w/o lift hooks 74.8 in

Height 111.6 in

Dry Weight 15065 lb

Sound Pressure @ 7 meters 77.5 dB(A)



#### Fuel Tank - UL142 Listed Base Design

Size	24hr (1000gal)	48hr (2000gal)	72hr (3000gal)
Dimensions (L/W/H) (in)	225 / 74 8 / 22	250 / 74 8 / 26	250 / 74 8 / 26

Weight (lb) 3350 4600 6200

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#### Standard Features & Accessories **Optional Accessories** ✓ UL2200 Certification ☐ Main Line CB (3 / 4 Poles – 80% / 100% rated) Heavy Duty Steel Base Frame Upsize Alternator PMG w/MX341 AVR ☐ Voltage Regulation ±0.5% w/MX321 AVR Engine Jacket Water Heater ☐ Anti-condensation Heater Battery and Battery Rack ☐ Sub Base Fuel Tank (UL142 / UL2085) **Battery Charger** ☐ Fuel Level Display & Alarm on Controller Anti Vibration Pads between Engine/Alternator & Base Frame ☐ Low / High Fuel Alarms Critical Grade Silencer Inside Enclosure Fuel Water Separator Filter Residential Grade Silencer Set for Open Skid Sets ■ Auto Fuel Fill Control System Exhaust outlet rain cap and radiator fill cap ☐ Oil Temperature Display on Controller Sound Absorb Foam Material for Enclosure ☐ Manual Speed Adjust Rheostat **Emergency Stop Button** ☐ Manual Voltage Adjust Rheostat Oil Drain Valve ☐ Remote Annunciator Panel Coolant Drain Valve ☐ Remote Control & Monitoring Panel Jacket Water Heater Isolation Valves Advanced SMS Messaging Flex Fuel Lines Control Panel Heater Air Filter Restriction Gauge ■ Battery Disconnect Switch Engine Manifold Cover ■ Battery Heater Turbocharger Cover ☐ Battery Charger 10/20 Amp **Protection Covers for Rotating Parts** ☐ Shunt Trip / Aux Contacts **Exhaust Insulation Cover** Spring Anti-vibration Isolators Enclosure DC Light Automatic Transfer Panel (ATS)

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24 Months / 2000 hours Limited Standby Warranty

Aksa Power Generation **USA & LATAM** 

a member of AZANCI HOLDÍNG

☐ 5 Years / 2000 hours Limited Comprehensive Warranty

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Operations Manual

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