





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	AC754-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Cummins VTA28G5	Alternator Make	Stamford
Control Panel Model	DSE 7320	Base Frame / Enclosure	AKSA MS85 / AK90

Genset Rating - 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
	HCI544E (Wnd-311)	480 / 277V	754kVA	680kVA	906A
X701 - 0.C -	HCI544E (Wnd-14)	380 / 222V	754kVA	680kVA	1145A
VTA28G5	HCI544F (Wnd-311)	220 / 127V	754kVA	680kVA	1978A
	HCI544F (Wnd-311)	208 / 120V	754kVA	680kVA	2092A

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**















Engine Data		Electric System	
Manufacturer	Cummins	Engine Cranking Motor	24V
Model	VTA28G5	Engine Battery Charge System	Negative Ground
Displacement & Cylinders	28 L / 12 Cylinders	Battery Qty, Rating, CCA	2 x 150Ah
Engine Speed	1800rpm	zatory (cy, rading, corr	2 A 1307 III
Engine Standby Power	671 Kw	Cooling System	
Engine Prime Power	608 kW	Coolant Capacity (Engine Only)	80 L
Aspiration	Turbocharged&Aftercooled	Minimum Pressure Cap	69 kPa
Compression Ratio	13.1:1	Max Coolant Friction Head	69 kPa
Bore / Stroke	137 mm / 169 mm	External to Engine Max Top Tank Temperature	104 °C
Break Mean Effective Pressure	1599 kPa	Thermostat Range	82-93 °C
Piston Speed	9.1 m/s	The Throstat Yearige	02 93 0
Friction Power	78 kWm	Exhaust System	
Radiated Heat to Ambient	105 kWm	Exhaust Gas Temp	502 °C
Steady State Stability	0.25 %	Max Allowable Back Pressure	76 mmHg
Dry Weight – fan to flywheel	2900 kg	Exhaust Gas Flow	5040 cfm
Exhaust Noise 1m @Rated Power	112 dB(A)	al di	105
Fuel System		Air Intake System	

Type Injection System	Direct Injection
Max Fuel Flow	337 L/h
Max Restriction at PT Pump	102 mmHg Clean Filter
Max Allowable Head on Injector Return Line	165 mmHg

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Standby Power (110%)	173 liter / hour
Prime Power (100%)	154 liter / hour
Prime Power (75%)	118 liter / hour
Prime Power (50%)	84 liter / hour
Prime Power (25%)	50 liter / hour

Intake Air Flow	2280 cfm
Max Intake Air Restriction	635 mmH2O Dirty Element 254 mmH2O Clean Element
Air Filter Type	Dry Paper Element

Lubrication System

Total System Capacity	83 L
Sump Capacity Max / Min	68 L / 61 L
Max Oil Temp	121 °C
Oil Pressure at Rated Speed	345 – 621 kPa







Alternator Data

Manufacturer Stamford

Standards BS EN 60034

Control System Self Excited

A.V.R. AS440

Voltage Regulation \pm 1 %

Insulation System Class H

Protection IP23

Rated Power Factor 0.8

Stator Winding Double Layer Concentric

Winding Pitch Two Thirds

Winding Leads 12

Telephone Interference THF < 2 %

Waveform Distortion No Load < 1.5 %

Maximum Over speed 2250 rev/min

Battery Charger & Electrical System Data

Manufacturer AKSA

Model SmartGen BACo6A

Input Voltage $100V \sim 250V AC$

Output Voltage / Current 27,6V DC / 3A

Jacket Water Heater Data

Manufacturer AKSA

Model HTR4000

Input Voltage Based on Genset Voltage

Power 4000W

Controller Data

Manufacturer DSE

Model 7320

Type Auto Mains Failure Control

Controller Features & Benefits

Microprocessor controlled

License free PC 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

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

kW & kVAr protection

Reverse power (kW & kVAr) protection

Power monitoring (kWh, kVAr, kVAh, kVArh)

Load switching (load shedding and dummy load outputs)

Unbalanced load protection

Independent Earth Fault trip

Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software





Enclosure Features

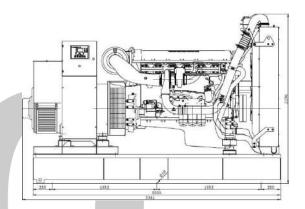
- ✓ Heavy Duty Steel Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

Enclosure Features

- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Top Lifting Feature
- ✓ Base Fuel Tank
- ✓ Easy Access for Maintenance

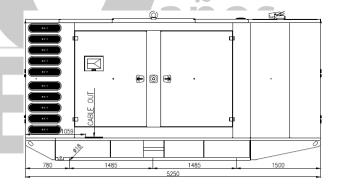
Open Skid Gen-Set Dimensions

Length	3800 mm
Width	1550 mm
Height	2270 mm
Dry Weight	5470 kg
Tank Capacity	1000 L



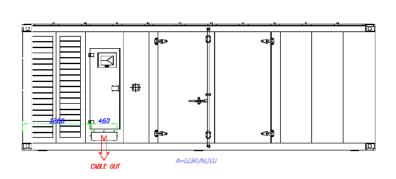
Enclosed Gen-Set Dimensions @480&380v Conf.

Length	5250 mm
Width	1605 mm
Height	2656 mm
Dry Weight	7030 kg
Tank Capacity	1000 L
Sound Pressure @ 7 meters	78 dB(A)



Enclosed Gen-Set Dimensions @208&220v Conf.

Length	6500 mm
Width	2200 mm
Height	2353 mm
Dry Weight	7820 kg
Tank Capacity	1100 L
Sound Pressure @ 7 meters	TBD







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Standard Features & Accessories

- ✓ Heavy Duty Steel Base Frame
- Integral Fuel Tank
- Fuel Drain Plug
- Control Panel Window
- Engine Jacket Water Heater
- Battery and Battery Rack
- **Battery Charger**
- Radiator fill cap on enclosure
- Anti Vibration Pads between Engine/Alternator & Base Frame
- Residential Grade Silencer Inside Enclosure
- Industrial Grade Silencer Set for Open Skid Sets
- Sound Absorb Foam for Enclosure
- Air Inlet & Outlet Rodent Guards
- Oil Drain Valve
- Coolant Drain Valve
- Flex Fuel Lines
- Air Filter Restriction Gauge
- **Engine Manifold Cover**
- Turbocharger Cover
- Protection Covers for Rotating Parts
- Exhaust Insulation Cover
- Control Panel Window
- Operations Manual
- 24 Months / 2000 hours Limited Standby Warranty

Optional Accessories

- ☐ Main Line CB (3 / 4 Poles)
- □ PMG
- □ Voltage Regulation ±0.5% w/MX321AVR
- Anti-condensation Heater
- ☐ Stand Alone Bulk Fuel Tank
- ☐ 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
- 10A Battery Charger
- Battery Charge Ammeter
- Tool Kit for Maintenance
- Power Plug Outlet Kit
- ☐ Automatic Transfer Panel (ATS) Contactor Design
- ☐ Automatic Transfer Panel (ATS) Changeover Design

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

SEDE PRINCIPAL:

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