



**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 AD575-6 Frequency / PF 60Hz, 1800 rpm, 0.8pf

Engine Make & Model Doosan DP158LC Alternator Make Stamford

Control Panel Model DSE 7320 Base Frame / Enclosure AKSA MS70 / MS85

#### Genset Rating – 60Hz, 18000rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
DP158LC	HCI544C (Wnd-311)	480 / <b>277V</b>	575kVA	520kVA	692A
	HCI544D (Wnd-14)	380 / 222V	575kVA	520kVA	874A
	HCI544C (Wnd-311)	220 / 127V	575kVA	520kVA	1509A
	HCI544C (Wnd-311)	208 / 120V	569kVA	520kVA	1579A

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









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Engine Data		Electric System	
Manufacturer	Doosan	Engine Cranking Motor	24V
Model	DP158LC	Engine Battery Charge System	Negative Ground
Displacement & Cylinders	14.618 L / 8 Cylinders	Battery Qty, Rating, CCA	2 x 120Ah
Engine Speed	1800rpm	Buttery qey, running, corr	Z A IZOM
<b>Engine Standby Power</b>	513 Kw	Cooling System	
Engine Prime Power	466 kW	Cooling Fan	Blower Type, 7 Blades
Aspiration	Turbocharged&Intercooled	Pressure Cap Setting	49 kPa
Compression Ratio	15: 1	Coolant Capacity	79 L
Bore / Stroke	128 mm / 142 mm	Max Water Temperature	103 °C
Break Mean Effective Pressure	2.33 Mpa	Thermostat Range	71– 85 °C
Mean Piston Speed	8.5 m/s	The mostat Range	71-03 C
Over Speed Limit	1980 rpm	<b>Exhaust System</b>	
Friction Power	44 kW	Max Allowable Back Pressure	5.9 kPa
Dry Weight – w/fan	1155 kg		
Sound Pressure at Rated Power	100.33 dB(A)	Fuel System	
		Injector Pump Type	Bosch In-line
<b>Lubrication System</b>		Fuel Feed Pump Capacity	315 L/h
Oil Capacity, Max	22 L	Max Fuel Inlet Restriction	10 kPa
Oil Capacity, Min	13 L		
Max Oil Temp	120 °C	Max Fuel Return Restriction	60 kPa
Min Oil Pressure	250 kPa	Fuel Consumption	
Air Intake System		Standby Power (110%)	123.8 L/h
Max Intake Air Restriction	2.16 kPa – Clean Element	Prime Power (100%)	111.5 L/h
Max Intake Air Restriction	6.23 kPa Dirty Element	Prime Power (75%)	83.4 L/h
Max Static Pressure After Rad	0.125 kPa	Prime Power (50%)	57.7 L/h
		Prime Power (25%)	32.3 L/h

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 $<sup>{}^*</sup>Manufacturer\ reserves\ the\ right\ to\ make\ changes\ in\ model,\ technical\ specifications,\ color,\ equipment\ and\ accessories\ without\ prior\ notice.$ 





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.	AS440			
Voltage Regulation	$\pm$ 1 %	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		
Insulation System	Class H			
Protection	IP23			
Rated Power Factor	0.8			
Stator Winding	Double Layer Concentric			
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 protection		
Maximum Over speed	2250 rev/min	Support up to three remote display modules		
		Configurable timers and alarms		
Battery Charger & Electric	al System Data	Multiple date and timer scheduler		
Manufacturer	AKSA	Integral PLC editor		
Model	SmartGen BAC06A	'Protections disabled' feature		
Input Voltage	100V ~ 250V AC	kW & kVAr protection		
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protection		
Jacket Water Heater Data		Power monitoring (kWh, kVAr, kV	Ah, kVArh)	

Load switching (load shedding and dummy load outputs) Manufacturer **AKSA** Unbalanced load protection HTR3000 Model Independent Earth Fault trip Input Voltage Based on Gen Voltage 3000W Power

Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software

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#### **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**

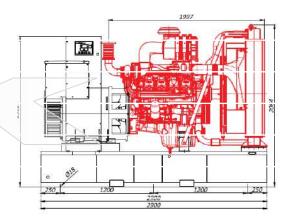
Length 2900 mm

Width 1550 mm

Height 2064 mm

Dry Weight 3190 kg

Tank Capacity 700 L



#### Enclosed Gen-Set Dimensions @480&380V Conf.

Length 4460 mm

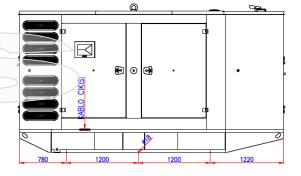
Width 1606 mm

Height 2477 mm

Dry Weight 4140 kg

Tank Capacity 700 L

Sound Pressure @ 7 meters 83.5 dB(A)



#### Enclosed Gen-Set Dimensions @208&220V Conf.

Length 5250 mm

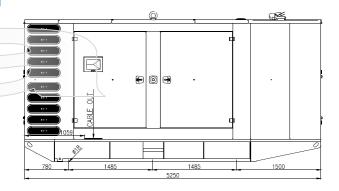
Width 1605 mm

Height 2656 mm

Dry Weight 5680 kg

Tank Capacity 1000 L

Sound Pressure @ 7 meters TBD



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#### Standard Features & Accessories **Optional Accessories** ✓ Heavy Duty Steel Base Frame ☐ Main Line CB (3 / 4 Poles) Integral Fuel Tank □ PMG **Fuel Drain Plug** $\square$ Voltage Regulation $\pm 0.5\%$ w/MX321 AVR Control Panel Window ■ Anti-condensation Heater **Engine Jacket Water Heater** ■ Double Wall Base Fuel Tank **Battery and Battery Rack** ☐ Fuel Level Display & Alarm on Controller **Battery Charger** ☐ Low / High Fuel Alarms Radiator fill cap on enclosure Fuel Water Separator Filter Anti Vibration Pads between Engine/Alternator & Base Frame Auto Fuel Fill Control System Residential Grade Silencer Inside Enclosure □ Oil Temperature Display on Controller Industrial Grade Silencer Set for Open Skid Sets ■ Manual Speed Adjust Rheostat Sound Absorb Foam for Enclosure ■ Manual Voltage Adjust Rheostat Air Inlet & Outlet Rodent Guards ☐ Remote Annunciator Panel Oil Drain Valve ☐ Remote Control & Monitoring Panel Coolant Drain Valve Advanced SMS Messaging Flex Fuel Lines Control Panel Heater ■ Battery Disconnect Switch Air Filter Restriction Gauge **Engine Manifold Cover** ■ Battery Heater **Turbocharger Cover** ■ 10A Battery Charger **Protection Covers for Rotating Parts** ■ Battery Charge Ammeter ☐ Tool Kit for Maintenance **Exhaust Insulation Cover** Control Panel Window Power Plug Outlet Kit **Operations Manual** ■ Automatic Transfer Panel (ATS) – Contactor Design 24 Months / 2000 hours Limited Standby Warranty ☐ Automatic Transfer Panel (ATS) – Changeover Design

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