AD650-6



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.



Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
DP158LD	HCI544C (Wnd-311)	480 / 277V	644kVA	565kVA	775A
	HCI544D (Wnd-14)	380 / 222V	650kVA	568kVA	988A
	HCI544D (Wnd-311)	220 / 127V	650kVA	568kVA	1706A
	HCI544E (Wnd-311)	208 / 120V	650kVA	568kVA	1804A

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**









AKSA POWER GENERATION

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Engine Data		Electric System	
Manufacturer	Doosan	Engine Cranking Motor	24V
Model	DP158LD	Engine Battery Charge System	Negative Ground
Displacement & Cylinders	14.618 L × 8 Cylinders	Battery Qty, Rating, CCA	2 x 120Ah
Engine Speed	1800rpm	Dattery sty, Mating, COA	
Engine Standby Power	556 Kw	Cooling System	
Engine Prime Power	505 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		
Break Mean Effective Pressure	2.53 Mpa	Max Water Temperature	103 °C
Mean Piston Speed	8.5 m/s	Thermostat Range	71–85 °C
Over Speed Limit	1980 rpm	Exhaust System	
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
Lubrication System		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%)	139.6 L/h
Max Intake Air Restriction	2.16 kPa – Clean Element	Prime Power (100%)	127.1 L/h
Max Intake Air Restriction	6.23 kPa – Dirty Element	Prime Power (75%)	92.9 L/h
Max Static Pressure After Rad	0.125 kPa	Prime Power (50%)	62.3 L/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.	AS440		
Voltage Regulation	\pm 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 resista	ince to water ingress
Stator Winding	Double Layer Concentric	Modules can be integrated to build	ling management systems
Winding Pitch	Two Thirds	Real time clock provides accurate e	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	ction
Maximum Over speed	2250 rev/min	Support up to three remote display	v modules
		Configurable timers and alarms	
Battery Charger & Electric	cal 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) protec	ction
Jacket Water Heater Data		Power monitoring (kWh, kVAr, kV	Ah, kVArh)
Manufacturer	AKSA	Load switching (load shedding and	l dummy load outputs)
Model	HTR3000	Unbalanced load protection	
Input Voltage	Based on Gen Voltage	Independent Earth Fault trip	
Power	3000W	Fully configurable via DSE Configu	aration Suite PC Software
		SCADA monitoring via DSE Config	guration Suite PC Software

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Enclosure Features

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

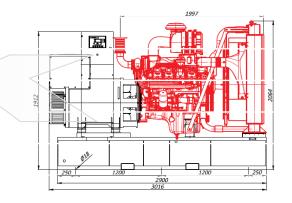
Open Skid Gen-Set Dimensions

Length	3016 mm
Width	1550 mm
Height	2064 mm
Dry Weight	3390 kg
Tank Capacity	700 L

✓ Coolant Fill Cap

Enclosure Features

- ✓ Top Lifting Feature
- ✓ Base Fuel Tank
- ✓ Easy Access for Maintenance

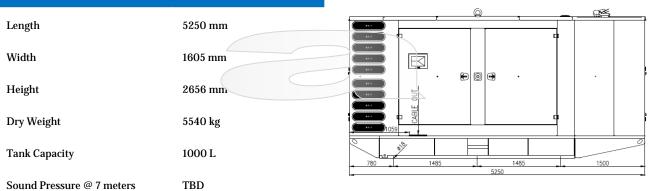


Internally Mounted Exhaust System with Rain Cap

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

Length	4460 mm		
Width	1606 mm		
Height	2477 mm		•
Dry Weight	4240 kg		þ
Tank Capacity	700 L		0
Sound Pressure @ 7 meters	84 dB(A)	780 1200 1200	1220

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



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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	Voltage Regulation ±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
\checkmark 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
✓ Air Filter Restriction Gauge	Battery Disconnect Switch
✓ Engine Manifold Cover	Battery Heater
✓ Turbocharger Cover	10A Battery Charger
✓ Protection Covers for Rotating Parts	Battery Charge Ammeter
✓ Exhaust Insulation Cover	□ Tool Kit for Maintenance
✓ Control Panel Window	Power Plug Outlet Kit
✓ Operations Manual	Q Automatic Transfer Panel (ATS) – Contactor Design
✓ 24 Months / 2000 hours Limited Standby Warranty	□ Automatic Transfer Panel (ATS) – Changeover Design

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

Aksa Power Generation USA 371 Exchange Street, West Monroe, LA 71292 T: + 1 318 8558377 sales@aksausa.com Aksa Power Generation USA & LATAM a member of KAZANCI HOLDING Aksa Power Generation LATAM 12320 NW 116th Street, Miami, FL 33178 T: + 1 786 4936857 sales@aksausa.com

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