



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.

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General Charact	eristics				
Model Name	APD1860M-	6	Frequency / PF	60Hz, 1800	rpm, 0.8pf
Engine Make & Mo	del Mitsubishi S	12R-PTAA2	Alternator Make	Stamford	
Control Panel Mod	el DSE 7320		Base Frame / Enclosure	AK99/ISO C	ONTAINER
Genset Rating – 60Hz, 1800rpm, 0.8pf					
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
	PI734C (Wnd-312)	480 / 277V	1860kVA	1690kVA	2237A
	PI734C (Wnd-13)	380 / 222V	1860kVA	1690kVA	2826A
S12R-PTAA2	N.A.	220 / 127V			-
	N.A.	208 / 120V		-	-

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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AKSA POWER GENERATION

Prime Power (50%)

Prime Power (25%)

175 l/h

88 l/h



40 IPESA

Engine Data		Electric System		
Manufacturer	Mitsubishi	Battery Charge Alternator	24V / 30Ah	
Model	S12R-PTAA2	Starting Motor Capacity	7.5 kW x 2	
Displacement & Cylinders	49.03 L / 12 Cylinders	Battery Qty, Rating	4 x 200Ah	
Engine Speed	1800rpm			
Engine Standby Power wo/Fan	1633 Kw	Cooling System		
Engine Prime Power wo/Fan	1484 kW	Radiator Cooling System Type	Closed Circuit	
Aspiration	Turbocharged, Air to Air Cooler	Radiator Ambient Temp	> 50 °C	
Compression Ratio	13.5:1	Coolant Capacity, Engine Only (Jacket & Air Cooler)	327 l	
Bore / Stroke	170 mm / 180 mm	Max Coolant Temp at Engine Outlet	98 °C	
Break Mean Effective Pressure	321 psi	Thermostat, Start – Fully Open	71– 85 °C	
Mean Piston Speed	10.8 m/s			
Allowable Fan Loss Power	50 Kw	Exhaust System		
Max Regenerative Power Absorption Capacity wo Fan	144 Kw	Heat Rejection to Exhaust	78731 BTU/min	
Steady State Speed Stability	\pm 0.25 %	Max Allowable Back Pressure	600 mmH2O	
Max Over Speed Capacity	2100 rpm	Exhaust Gas Flow	391 m³/min	
Wet Weight – Engine Only	5276 kg	al al	Syrin / Inn	
Fuel System		Air Intake System		
Fuel Injector	Mitsubishi PS6 Type x 2	Intake Air Flow	148 m³/min	
Max Suction of Feed Pump	75 mmHg	Max Intake Air Restriction (Clean Element)	400 mmH2O	
Max Static Head of Return & Leak Pipe	150 mmHg	Air Filter Type	Dry Paper Element	
Fuel Consumption		Lubrication System		
Standby Power (110%)	386 l/h	Total System Capacity	180 l	
Prime Power (100%)	351 l/h	Sump Capacity Max / Min	150 l / 108 l	
Prime Power (75%)	273 l/h	Max Oil Temp	110 °C	

71 – 93 psi

Oil Pressure at Rated Speed

AKSA POWER GENERATION



CIND CI GENERATION				
Alternator Data		Controller Data		
Manufacturer	Stamford	Manufacturer	DSE	
Standards	BS EN 60034	Model	7320	
Control System	PMG	Туре	Auto Mains Failure Control	
A.V.R.	MX321			
Voltage Regulation	Voltage Regulation \pm 0.5 %		Controller Features & Benefits	
Insulation System	Class H	Microprocessor controlled		
Protection	IP23	License free PC Software IP65 rating offers increased resistance to water ingress		
Rated Power Factor	0.8			
Stator Winding	Double Layer Concentric	Modules can be integrated to build	ng management systems	
Winding Pitch	Two Thirds	Real time clock provides accurate e	vent 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	105	
Battery Charger & Electric	al System Data	Multiple date and timer scheduler		
Manufacturer	AKSA	Integral PLC editor 'Protections disabled' feature		
Model	SmartGen BACo6A			
Input Voltage	100V ~ 250V AC	kW & kVAr protection		
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protec	tion	
		Power monitoring (kWh, kVAr, kVA	Ah, kVArh)	
Jacket Water Heater Data		Load switching (load shedding and	dummy load outputs)	
Manufacturer	AKSA	Unbalanced load protection		
Model	HTR4000	Independent Earth Fault trip		
Input Voltage	Based on Genset Voltage			
Power	2 x 4000W	Fully configurable via DSE Configu		
		SCADA monitoring via DSE Config	uration Suite PC Software	

Enclosure Features

AKSA POWER GENERATION

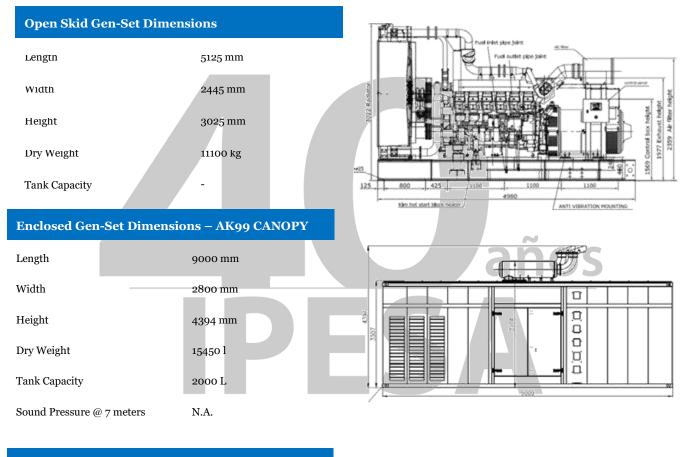
- ✓ Heavy Duty Steel Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

Enclosure Features

✓ Externally Mounted Exhaust System with RainCap

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- ✓ Coolant Fill Cap
- ✓ Top Lifting Feature
- ✓ Standalone Fuel Tank
- ✓ Easy Access for Maintenance



Enclosed Gen-Set Dimensions – ISO CONTAINER

Length	12192 mm	Latri ha Broler ha
Width	2438 mm	
Height	2896 mm	
Dry Weight	21500 kg	
Tank Capacity		Crear where Maintenance Book Cooling Huld suffer
Sound Pressure @ 7 meters	82 dB(A)	

AKSA POWER GENERATION

APD1860M-6



Standard Features & Accessories

- ✓ Heavy Duty Steel Base Frame
- ✓ Integral Fuel Tank
- ✓ PMG w/MX321 AVR
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Battery Restraint
- ✓ 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)
- 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
- □ 10A Battery Charger

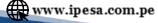
Battery Heater

- □ Battery Charge Ammeter
- Tool Kit for Maintenance
- Power Plug Outlet Kit
- Automatic Transfer Panel (ATS) Contactor Design
- □ Automatic Transfer Panel (ATS) Changeover Design

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SEDE PRINCIPAL:





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