



40 IPESA

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	APD2250M-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Mitsubishi S16R-PTA2	Alternator Make	Stamford
Control Panel Model	DSE 7320	Base Frame / Enclosure	AK99/ISO CONTAINER

Genset Rating - 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
	PI734E (Wnd-312)	480 / 277V	2250kVA	2045kVA	2706A
Cr CD DTA o	PI734F (Wnd-13)	380 / 222V	2250kVA	2045kVA	3418A
S16R-PTA2	N.A.	220 / 127V		7 -	-
	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











Prime Power (25%)

109 l/h

APD2250M-6



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Engine Data		Electric System	
Manufacturer	Mitsubishi	Battery Charge Alternator	24V / 30Ah
Model	S16R-PTA2	Starting Motor Capacity	7.5 kW x 2
Displacement & Cylinders	65.37 L / 16 Cylinders	Battery Qty, Rating	4 x 200Ah
Engine Speed	1800rpm		
Engine Standby Power wo/Fan	1950 Kw	Cooling System	
Engine Prime Power wo/Fan	1775 kW	Radiator Cooling System Type	Closed Circuit
Aspiration	Turbocharged, After Cooler	Radiator Ambient Temp	> 50 °C
Compression Ratio	13.5:1	Coolant Capacity, Engine Only	4131
Bore / Stroke	170 mm / 180 mm	(Jacket & Air Cooler) Max Coolant Temp at Engine	98 °C
Break Mean Effective Pressure	289 psi	Outlet Thermostat, Start – Fully Open	71– 85 °C
Mean Piston Speed	10.8 m/s	The Indiana, Start Tany Open	71 00 0
Allowable Fan Loss Power	50 Kw	Exhaust System	
Max Regenerative Power Absorption Capacity wo Fan	192 Kw	Exhaust Outlet Size	202 mm
Steady State Speed Stability	±0.25 %	Max Allowable Back Pressure	600 mmH2O
Max Over Speed Capacity	2100 rpm	Exhaust Gas Flow	~
Wet Weight – Engine Only	6677 kg	Exilaust Gas Flow	424 m³/min
Fuel System		Air Intake System	
Fuel Injector	Mitsubishi PS6 Type x 2	Intake Air Flow	194 m³/min
Max Suction of Feed Pump	75 mmHg	Max Intake Air Restriction	400 mmH2O
Max Static Head of Return &	150 mmHg	(Clean Element)	Day Day on Element
Leak Pipe	-00	Air Filter Type	Dry Paper Element
Fuel Consumption		Lubrication System	
Standby Power (110%)	478 l/h	Total System Capacity	230 l
Prime Power (100%)	435 l/h	Sump Capacity Max / Min	200 l / 140 l
Prime Power (75%)	326 l/h	Max Oil Temp	110 °C
Prime Power (50%)	217 l/h	Oil Pressure at Rated Speed	71 – 93 psi





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Alternator Data

Manufacturer Stamford

Standards BS EN 60034

Control System PMG

A.V.R. MX321

Voltage Regulation \pm 0.5 %

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 2 x 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

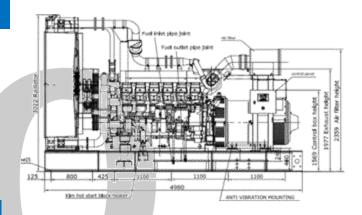
- ✓ Heavy Duty Steel Structure
- E-Stop on Enclosure
- Control Panel Eliminated from Engine Vibrations
- Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

Enclosure Features

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

Open Skid Gen-Set Dimensions

Lengtn	5305mm
Width	2480 mm
Height	2900 mm
Dry Weight	13000 kg
Tank Capacity	-

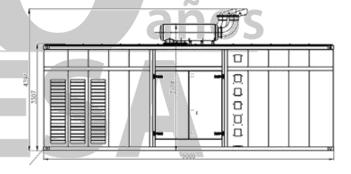


Enclosed Gen-Set Dimensions – AK99 CANOPY

Length	9000 mm
Width	 2800 mm
Height	4394 mm
Dry Weight	19000 l
Tank Capacity	2000 L

Sound Pressure @ 7 meters N.A.

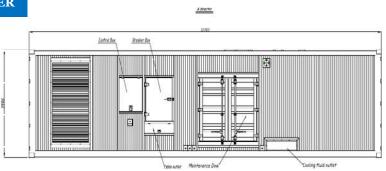
Sound Pressure @ 7 meters



FAINER

84 dB(A)

Enclosed Gen-Set Dimensions – ISO CONT		
12192 mm		
2438 mm		
2896 mm		
23100 kg		
-		







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
- □ 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

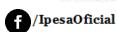
SEDE PRINCIPAL:

Av. Nicolás Ayllón Nº 2241 – Ate – Lima – Perú Telf.: (51-1) 748-3333 / 326-0411 / Anexo 1152











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