



**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	APD-ULM800	Sectionalists Section (Section Section
Engine Make	Mitsubishi	THE PARTY OF THE P
Engine Model	S12A2-Y2PTAW-2	The state of the s
Alternator Make	Stamford	
Control Panel Make & Model	DSE 7320	
Frequency & Speed	60Hz, 1800rpm	c (UL) us
Enclosure Make & Model	AKSA AUL 81/82	LISTED

## **Genset Rating**

Engine	Alternator	Voltage	Standby Power	Power Factor	Standby Current
	HCI634H (Wnd-312)	480 / 277V	800kW	0.8	1204A
S12A2-	HCI634H (Wnd-312)	240/120V	800kW	0.8	2408A
Y2PTAW-2 HCIO	HCI634H (Wnd-312)	208 / 120V	800kW	0.8	2779A
	HCI634G (Wnd-17)	600 / 347V	800kW	0.8	963A

### \*EPA – Certified for Emergency Stationary Applications

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** according to the UL test program.

The generator set meets **NFPA70**, **99**, **110**, **37** Level 1 when equipped with the necessary accessories and installed per NFPA standards.















Engine Data		Electric System				
Manufacturer	Mitsubishi	Battery Charge Alternator	24V / 25Ah			
Model	S12A2-Y2PTAW-2	Starting Motor Capacity	6 kW x 2			
Displacement & Cylinders	33.93 L 12 Cylinders	Battery Qty, Rating, CCA	4 x 200Ah, 1150CCA			
Engine Speed	1800rpm					
Engine Standby Power wo/Fan	900 kW	Cooling System				
Engine Prime Power wo/Fan	820 kW	Radiator Cooling System Type	Closed Circuit			
Aspiration	Turbo-charged, InterCooler	Radiator Ambient Temp	> 50 °C			
Compression Ratio	15.3 : 1	Coolant Capacity, Engine Only	26.4 gal			
Bore / Stroke	150 mm / 160 mm	(Jacket & Air Cooler)  Max Coolant Temp at Engine	208 °F			
Break Mean Effective Pressure	256 psi	Outlet  Thermostet Start Fully Open				
Mean Piston Speed	9.6 m/s	Thermostat, Start – Fully Open	149–185 °F			
Allowable Fan Loss Power	38 kW	<b>Exhaust System</b>				
Max Regenerative Power Absorption Capacity wo Fan	93 kW	Exhaust Outlet Size	202 mm			
Steady State Speed Stability	$\pm$ 0.25 %	Max Allowable Back Pressure	600 mmH2O			
Max Over Speed Capacity	2400 rpm	Exhaust Gas Flow	232 m³/min			
Wet Weight – Engine Only	7938 lb	LAHAUST Gas Flow & & & III''/ IIIIII				
Fuel System		Air Intake System				
Fuel Injector	Bosch P Type x 2	Intake Air Flow	88 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%)	67.4 gal/h	Total System Capacity	31.7 gal			
Prime Power (100%)	58.4 gal/h	Sump Capacity Max / Min	26.4 gal / 21.1 gal			
Prime Power (75%)	41.7 gal/h	Max Oil Temp	230 °F			
Prime Power (50%)	28.5 gal/h	Oil Pressure at Rated Speed	57 – 86 psi			
Prime Power (25%)	16.6 gal/h					

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



**Stator Winding** 

# APD-ULM800



### **Controller Data Alternator Data** Manufacturer Stamford Manufacturer DSE Standards BS EN 60034 7320 Model PMG Control System Auto Mains Failure Control Type A.V.R. MX321 **Controller Features & Benefits** Voltage Regulation $\pm$ 0.5 % Microprocessor controlled Class H **Insulation System** License free PC Software IP23 Protection IP65 rating offers increased resistance to water ingress Rated Power Factor 0.8 Modules can be integrated to building management systems

Winding Pitch Four line back-lit LCD text display Winding Leads 12

Five key menu navigation Telephone Interference THF < 2 %

Two Thirds

Double Layer Concentric

Front panel editing with PIN protection Waveform Distortion No Load < 1.5 %

Support up to three remote display modules Maximum Over speed 2250 rev/min

# Battery Charger & Electrical System D

Manufacturer ComAp

Model InteliCharger

Input Voltage 85V ~ 264V AC

Output Voltage / Current 27.2V Float / 2.5A pk

# Configurable timers and alarms

Multiple date and timer scheduler

Real time clock provides accurate event log

Integral PLC editor

'Protections disabled' feature

kW & kVAr protection

Reverse power (kW & kVAr) protection

# Jacket Water Heater Data

Manufacturer Hotstart

Model CSM10602-000

240V Input Voltage

6000W Power

# 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

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# **Enclosure Features**

- ✓ Heavy Duty Steel / Aluminum Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

# **Enclosure Features**

- ✓ Internally Mounted Exhaust System with Rain Cap
- Coolant Fill Cap
- Removable Base Frame Lifting Hooks
- ✓ Oil & Coolant Drain Ports
- ✓ Easy Access for Maintenance

# **Open Skid Gen-Set Dimensions**

Length 197 in

Width 89 in

Height 83.2 in

Dry Weight 17800 lb

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### Enclosed Gen-Set Dimensions - Level 1

Length 260.4 in

Width 89 in

Height 101.2 in

Dry Weight 23490 lb

Sound Pressure @ 7 meters 82 dB(A)

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## Enclosed Gen-Set Dimensions – Level 2

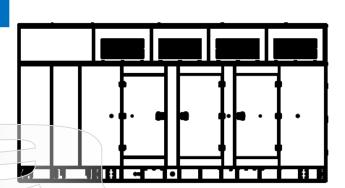
Length 260.4 in

Width 89 in

Height 132.9 in

Dry Weight TBA

Sound Pressure @ 7 meters 79 dB(A) (Calculated Value)



# Fuel Tank - UL142 Listed Base Design

 Size
 24hr (1800gal)
 48hr (3600gal)
 72hr (4850gal)

 Dimensions (L/W/H) (in)
 285 / 89 / 25
 370 / 89 / 36
 486 / 89 / 36

Weight (lb) 5600 8600 11000

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# Standard Features & Accessories **Optional Accessories** ✓ UL2200 Certification ☐ Main Line CB (3 / 4 Poles – 80% / 100% rated) Heavy Duty Steel Base Frame Upsize Alternator PMG w/MX321 AVR ■ Digital AVR **Engine Jacket Water Heater** ■ Anti-condensation Heater **Battery and Battery Rack** ☐ Sub Base Fuel Tank (UL142 / UL2085) **Battery Charger** □ Fuel Level Display & Alarm on Controller Anti Vibration Pads between Engine/Alternator & Base Frame ☐ Low / High Fuel Alarms Critical Grade Silencer Inside Enclosure ■ Fuel Water Separator Filter Residential Grade Silencer Set for Open Skid Sets Auto Fuel Fill Control System Exhaust outlet rain cap and radiator fill cap □ Oil Temperature Display on Controller Sound Absorb Foam Material for Enclosure ■ Manual Speed Adjust Rheostat **Emergency Stop Buton** ■ Manual Voltage Adjust Rheostat Oil Drain Valve Remote Annunciator Panel Coolant Drain Valve ☐ Remote Control & Monitoring Panel Jacket Water Heater Isolation Valves Advanced SMS Messaging Flex Fuel Lines Control Panel Heater Air Filter Restriction Gauge ■ Battery Disconnect Switch **Engine Manifold Cover** ■ Battery Heater **Turbocharger Cover** ☐ Battery Charger 10/20 Amp **Protection Covers for Rotating Parts** ☐ Shunt Trip / Aux Contacts **Exhaust Insulation Cover** Spring Anti-vibration Isolators **Enclosure DC Light**

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Automatic Transfer Panel (ATS)

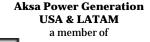
☐ 5 Years / 2000 hours Limited Comprehensive Warranty

Aksa Power Generation USA

**Operations Manual** 

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24 Months / 2000 hours Limited Standby Warranty



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