



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.

Model Name APD-ULM1250 Engine Make Mitsubishi Engine Model S12R-Y2PTAW-1 Alternator Make Stamford Control Panel Make & Model DSE 732 Frequency & Speed 60Hz, 1800rpm Enclosure Make & Model AKSA AULIO/ISO Cont.

Genset Rating

Engine	Alternator	Voltage	Standby Power	Power Factor	Standby Current
S12R- Y2PTAW-1	HCI634K (Wnd-312)	480 / 277V	1250kW	0.8	1881A
	HCI634K (Wnd-312)	240/120V	1120kW	0.8	3367A
	HCI634K (Wnd-312)	208 / 120V	1120kW	0.8	3886A
	HCI634K (Wnd-17)	600 / 347V	1250kW	0.8	1503A

*EPA – Certified for Emergency Stationary Applications

Derating may be required for conditions outside of the test conditions.

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.

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 ISO 14001:2015 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 / 30Ah
Model	S12R-Y2PTAW-1	Starting Motor Capacity	7.5 kW x 2
Displacement & Cylinders	49.03 L 12 Cylinders	Battery Qty, Rating, CCA	4 x 200Ah, 1150CCA
Engine Speed	1800rpm		
Engine Standby Power wo/Fan	1403 kW	Cooling System	
Engine Prime Power wo/Fan	1275 kW	Radiator Cooling System Type	Closed Circuit
Aspiration	Turbo-charged, InterCooler	Radiator Ambient Temp	> 50 °C
Compression Ratio	14.5:1	Coolant Capacity, Engine Only	34.3 gal
Bore / Stroke	170 mm / 180 mm	(Jacket & Air Cooler) Max Coolant Temp at Engine	208 °F
Break Mean Effective Pressure	276 psi	Outlet Thermostat, Start – Fully Open	160–185 °F
Mean Piston Speed	10.8 m/s	The most and open	100 100 1
Allowable Fan Loss Power	50 Kw	Exhaust System	
Max Regenerative Power Absorption Capacity wo Fan	144kW	Exhaust Outlet Size	202 mm
Steady State Speed Stability	$\pm 0.25\%$	Max Allowable Back Pressure	600 mmH2O
Max Over Speed Capacity	2100 rpm	Exhaust Gas Flow	$356 \mathrm{m}^3/\mathrm{min}$
Wet Weight – Engine Only	12249 lb	Exhibit Gus 110 W	ooo iii / iiiiii
Fuel System		Air Intake System	
Fuel Injector	Mitsubishi PS6 Type x 2	Intake Air Flow	135 m ³ /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%)	103.4 gal/h	Total System Capacity	47.6 gal
Prime Power (100%)	90.6 gal/h	Sump Capacity Max / Min	40 gal / 28.5 gal
Prime Power (75%)	68.2 gal/h	Max Oil Temp	230 °F
Prime Power (50%)	46.3 gal/h	Oil Pressure at Rated Speed	71 – 93 psi
Prime Power (25%)	27.5 gal/h		

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



Input Voltage

Power

240V

9000W

APD-ULM1250



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		a.	
Voltage Regulation	\pm 0.5 %	Controller Features & Benefits		
Insulation System	Class H	Microprocessor controlled		
Protection	IP23	License free PC Software		
Rated Power Factor	0.8	IP65 rating offers increased resist	ance to water ingress	
Stator Winding	Double Layer Concentric	Modules can be integrated to building management systems		
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 & Electrical System Data		Multiple date and timer scheduler		
Manufacturer	ComAp	Integral PLC editor		
Model	InteliCharger	'Protections disabled' feature		
Input Voltage	85V ~ 264V AC	kW & kVAr protection		
Output Voltage / Current 27.2V Float / 2.5A pk		Reverse power (kW & kVAr) protection		
Jacket Water Heater Data		Power monitoring (kWh, kVAr, kV	/Ah, kVArh)	
		Load switching (load shedding an	d dummy load outputs)	
Manufacturer	Hotstart		a daming four outputs)	
Model	CSM10902-000	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 Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

Enclosure Features

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

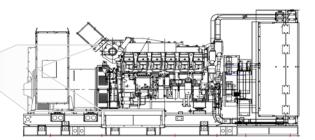
Open Skid Gen-Set Dimensions

Length 210.2 in

Width 89 in

Height 95.9 in

Dry Weight 27558 lb



Enclosed Gen-Set Dimensions - Canopy

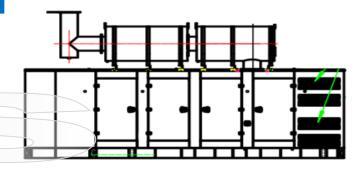
Length 296 in

Width 89 in

Height 165 in (101 in w/o silencer)

Dry Weight 34000 lb

Sound Pressure @ 7 meters 84 dB(A) (Calculated Value)



Enclosed Gen-Set Dimensions – ISO Container

Length 480 in

Width 96 in

Height 181 in (114 in w/o silencer)

Dry Weight 57800 lb

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

Air outlet Critical Silencer Alternator Alternator

Fuel Tank - UL142 Listed Base Design - Canopy Type / ISO Container type

Size	24hr (2500gal)	48hr (5000gal)	24hr (2500gal)	48hr (4960gal)
Dimensions (L/W/H) (in)	320 / 89 / 31	545 / 89 / 36	500 / 106.5 / 28	500 / 106.5 / 34.5
Weight (lb)	7900	12300	9800	12800

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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 Button** ■ 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)

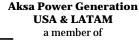
☐ 5 Years / 2000 hours Limited Comprehensive Warranty

Aksa Power Generation USA 371 Exchange Street, West Monroe, LA 71292

Operations Manual

T: + 1 318 8558377 sales@aksausa.com

24 Months / 2000 hours Limited Standby Warranty



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