



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-ULM1600 Engine Make Mitsubishi Engine Model S16R-Y2PTAW-1 Alternator Make Stamford Control Panel Make & Model DSE 7320 Frequency & Speed 60Hz, 1800rpm Enclosure Make & Model AKSA ISO Container UL

Genset Rating

Engine	Alternator	Voltage	Standby Power	Power Factor	Standby Current
S16R- Y2PTAW-1	PI734C (Wnd-312)	480 / 277V	1600kW	0.8	2408A
	N.A.	240/120V	-	-	-
	N.A.	208 / 120V		-	-
	PI734C (Wnd-17)	600 / 347V	1600kW	0.8	1926A

*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 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	S16R-Y2PTAW-1	Starting Motor Capacity	7.5 kW x 2
Displacement & Cylinders	65.37 L 16 Cylinders	Battery Qty, Rating, CCA	4 x 200Ah, 1150CCA
Engine Speed	1800rpm		
Engine Standby Power wo/Fan	1750 kW	Cooling System	
Engine Prime Power wo/Fan	1591 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	44.9 gal
Bore / Stroke	170 mm / 180 mm	(Jacket & Air Cooler) Max Coolant Temp at Engine	208 °F
Break Mean Effective Pressure	259 psi	Outlet Thermostat, Start – Fully Open	160–185 °F
Mean Piston Speed	10.8 m/s	ratermostat, start – Funy Open	100–163 F
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	\pm 0.25 %	Max Allowable Back Pressure	600 mmH2O
Max Over Speed Capacity	2100 rpm	Exhaust Gas Flow	$443\mathrm{m}^3/\mathrm{min}$
Wet Weight – Engine Only	15230 lb	Exhaust das Flow	445 III / IIIIII
Fuel System		Air Intake System	
Fuel Injector	Mitsubishi PS8 Type x 2	Intake Air Flow	168 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%)	128.6 gal/h	Total System Capacity	60.8 gal
Prime Power (100%)	114.7 gal/h	Sump Capacity Max / Min	53 gal / 37 gal
Prime Power (75%)	85.1 gal/h	Max Oil Temp	230 °F
Prime Power (50%)	57.6 gal/h	Oil Pressure at Rated Speed	71 – 93 psi
Prime Power (25%)	33.2 gal/h		

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





Alternator Data		Controller Data	Controller Data		
Manufacturer	Stamford	Manufacturer	DSE		
Standards	BS EN 60034	Model	7320		
Control System	PMG	Туре	Auto Mains Failure Control		
A.V.R.	R. MX321				
Voltage Regulation	\pm 0.5 %	Controller Features	Controller Features & Benefits Microprocessor controlled		
Insulation System	Class H	Microprocessor controlled			
Protection	IP23	License free PC Software			
Rated Power Factor	0.8	IP65 rating offers increase	IP65 rating offers increased resistance to water ingress		
Stator Winding	Double Layer Concentric	Modules can be integrated	to building management systems		
Winding Pitch	Two Thirds	Real time clock provides ac	Real time clock provides accurate event log		
Winding Leads	12	Four line back-lit LCD text	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 al	arms		
Battery Charger & Electr	rical System Data	Multiple date and timer scl	heduler		
Manufacturer	ComAp	Integral PLC editor			
Model	InteliCharger	'Protections disabled' featu	ıre		
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 Dat	a.	Power monitoring (kWh, k	VAr, kVAh, kVArh)		
Manufacturer	Hotstart	Load switching (load shedo	ding and dummy load outputs)		

CSM109Q2-000

240V

9000W

Model

Power

Input Voltage

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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 ISO Container
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Stainless Steel Locks & Hinges

Enclosure Features

- ✓ Externally Mounted Exhaust System with Rain Cap
 - Sound Absorb Louvers
- ✓ Container Lifting Hooks
- ✓ Oil & Coolant Drain Ports
- ✓ Easy Access for Maintenance

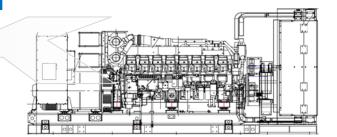
Open Skid Gen-Set Dimensions

Length 229.1 in

Width 88.7 in

Height 108.9 in

Dry Weight 32628 lb



Enclosed Gen-Set Dimensions – ISO Container

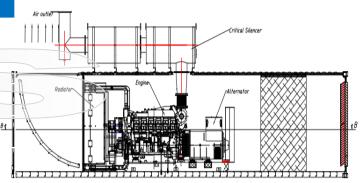
Length 480 in

Width 96 in

Height 181 in (114 in w/o silencer)

Dry Weight 62830 lb

Sound Pressure @ 7 meters 81 dB(A)



Fuel Tank - UL142 Listed Base Design

Size 24hr (3100gal) 48hr (6200gal) 72hr (9300gal)

Dimensions (L/W/H) (in) 500 / 106.5 / 28 588 / 106.5 / 36 TBD

Weight (lb) 11000 15000 TBD





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)

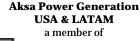
☐ 5 Years / 2000 hours Limited Comprehensive Warranty

Aksa Power Generation USA

Operations Manual

371 Exchange Street, West Monroe, LA 71292 T: +1 318 8558377 sales@aksausa.com

24 Months / 2000 hours Limited Standby Warranty



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Aksa Power Generation LATAM 12320 NW 116th Street, Miami, FL 33178 T: +1786 4936857 sales@aksausa.com