

POWER YOUR FUTURE

RENTAL PACK SERIES

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RENTAL PACK SERIES

	GEN-SET SPECIFICATIONS (CUMMINS POWERED)										
Model	Engine Brand	Engine Model	Controller	Genset Standby (kVA)	Power Prime (kVA)	Sound Le	evel(dBA) 7M	Fuel Tank Capacity(L)	Fuel Consumption (L/H)	Dimension (LxWxH)(mm)	Weight (kg)
APD30C	Cummins	4B3.9G2	DSE6020	30	27	77	65	330	6.7	2800x1020x1729	1500
APD43C	Cummins	4BT3.9G2	DSE6020	43	39	75	62	330	9.3	2800x1020x1729	1570
APD66C	Cummins	4BTA3.9G2	DSE6020	66	60	80	63	330	12.9	2800x1020x1729	1750
APD110C	Cummins	6BT5.9G2	DSE6020	110	100	80.1	71.5	550	22	3400x1100x1823	2100
APD200C	Cummins	6CTA8.3G2	DSE6020	200	180	80	66	1100	42	3600x1363x2103	3000
APD275C	Cummins	6LTAA8.9G2	DSE7320	275	250	TBD	TBD	1100	53	3700x1351x2103	3200
AC550	Cummins	QSX15G8	DSE7320	550	500	86.1	78.2	1500	103	5016x1696x2505	5800

ENVIRONMENTAL & HEALTHY

SOUND PROOF CANOPY WITH HIGH QUALITY SOUND ABSORBING MATERIAL

The interior is lined with high quality soundproof rubber and plastic material, and the door is airproof with rubber specific for car doors absorbing massive noise and heating during the operation.

RESIDENTIAL SILENCER

Residential silencer with excellent performance reduce the noise which contribute to environmental protection.





RENTAL PACK SERIES

	GEN-SET SPECIFICATIONS (PERKINS POWERED)										
Model	Engine	Engine	Controller	Genset	Power	Sound Le	evel(dBA)	Fuel Tank	Fuel	Dimension	Weight
	Brand	Model		Standby (kVA)	Prime (kVA)	1M	7M	Capacity(L)	Consumption (L/H)	(LxWxH)(mm)	(kg)
APD22PE	Perkins	404D-22G	DSE6020	22	20	69	58	150	5.4	2200x1051x1423	1150
APD33P	Perkins	1103A-33G	DSE6020	33	30	TBD	TBD	N/A	7.1	TBD	TBD
APD66P	Perkins	1103A-33TG2	DSE6020	66	60	TBD	TBD	N/A	13.9	TBD	TBD
APD110PE	Perkins	1104C-44TAG2	DSE6020	110	100	TBD	TBD	N/A	22.6	TBD	TBD
APD200P	Perkins	1106A-70TAG3	DSE6020	200	180	TBD	TBD	N/A	41.6	TBD	TBD
APD275PE	Perkins	1306A- E87TAG6	DSE7320	275	250	82	72	1100	54	3800x1350x2225	3200
APD500PE	Perkins	2506C- E15TAG1	DSE7320	500	455	TBD	TBD	N/A	99	TBD	TBD

ENVIRONMENTAL & HEALTHY

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RENTAL PACK SERIES

	GEN-SET SPECIFICATIONS (VOLVO POWERED)										
Model	Engine	Engine	Controller	Genset	Power	Sound Le	evel(dBA)	Fuel Tank	Fuel	Dimension	Weight
	Brand	Model		Standby (kVA)	Prime (kVA)	1M	7M	Capacity(L)	Consumption (L/H)	(LxWxH)(mm)	(kg)
APD165V	Volvo	TAD731GE	DSE6020	165	150	86.5	73.5	1100	34.9	3700x1320x2103	3000
APD550V	Volvo	TAD1641GE	DSE7320	550	500	89	79.5	1350	103.2	5016x1696x2505	6300

ENVIRONMENTAL & HEALTHY

SOUND PROOF CANOPY WITH HIGH QUALITY SOUND ABSORBING MATERIAL

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aksa POWER GENERATION

ENVIRONMENTAL & HEALTHY

- Bunded base fuel tank which can be satisfied with maximum 24 hours uninterrupted running and can be removable if necessary.
- Radiator is available to run under harsh weather conditions, and running temperature is 50oC.
- Strong mechanical construction, good antivibration function which settle for frequent moving.
- Using high quality soundproof material: rubber and plastic material which has higher anti-fire rating.
- Bunded base frame that can hold all liquids including fuel, oil and coolant.
- Mounted with safety locks avoiding unexpected opening.
- Fuel water separator can be installed as an option by customers' requirement.

RENTAL PACK SERIES



Power Cables Port

Pressure Lock



Fuel Filler

EASY OPERATION

- Fuel filling in port from outside.
- Three way by pass valves that enable to connect external fuel tank easily. (Not less than 110 KVA RP GEN-SET)
- Designed power cables port for customer convenient connection.

AKSA POWER GENERATION

HIGHER SECURITY

- Mounted with 3P/4P output breaker switch.
 Equipped with 30-100 mA leakage protective device, which can avoid accidents caused by unbalanced phase for maximizing the operator's safety.
- Mounted manual battery switches.
- Comply Australian cable standards AS3000:2007.



3P Output Breaker Switch



Battery Isolator Switch

CONVENIENT MOVING

- Be available for lifting through balance points of canopy top side.
- Angle and towing holes for moved expediently.

Beval Angle and Drag Holes

Balance Points of Canopy Top



Beval Angle and Drag Holes

GREAT MAINTAINABILITY

- Mounted with service port on the fuel tank which is easy for maintenance.
- Fork lift holes for bunded base and fuel tank base, it's easy for users to maintain or replace fuel tanks.
- There's bolt conncetion with fuel tank and base frame, and fuel tank and base frame can be separated by removing bolts. Fueltank side have drainage outlet, which is convenient for cleaning.



AKSA POWER GENERATION

ENGINE

Mounted with strong CUMMINS engine with quick start and high torque Heavy duty diesel engine 24 V D.C. starter and charge alternator Replaceable fuel filter, oil filter and dry element air filter Cooling radiator and fan Starter battery (with lead acid) including Rack and Cables Flexible fuel connection hoses and manual oil sump drain valve Jacket water heater

Operation manuals and circuit diagram documents

CUMMINS POWERED								
Genset Model	APD30C	APD43C	APD66C	APD110C	APD200C	APD275C	AC550	
Model		4B3.9G2	4BT3.9G2	4BTA3.9G2	6BT5.9G2	6CTA8.3G2	6LTAA8.9G2	QSX15G8
Engine Power Output	kWm	27	40	55	92	180	240	500
at rated rpm	HP	36	54	74	123	241	322	670
Aspiration and Cooling		Natural	Turbocharged	Turbocharged & Aftercooled	Turbocharged	Turbocharged & Aftercooled	Turbocharged and Charge Air Cooled	Turbocharged and Charge Air Cooled
Total Displacement	Litre	3.9	3.9	3.9	5.9	8.3	8.9	15
No. of Cylinders and Build		4- Inline	4 - Inline	4 - Inline	6- Inline	6- Inline	6- Inline	6- Inline
Engine Speed	rpm	1500	1500	1500	1500	1500	1500	1500
Bord and Stroke	mmxmm	102x120	102x120	102x120	102x120	114x135	114x145	137x169
Compression Ratio		17.3:1	17.3:1	17.3:1	17.3:1	17.3:1	16.6:1	17:01
Governor		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	ECM
Fuel Consumption at full load	L/hr	6.7	9.3	12.9	22	42	53	103
Oil Capacity	Litre	10.9	10.9	10.9	16.4	27.6	27.6	91
Coolant Capacity	Litre	19.2	19.2	19.9	32.9	41.3	41.1	42
Radiator Cooling Air	M³/min	120	120	120	136	186	475	708
Air Intake-Engine	M³/min	1.98	2.7	3.12	6.48	12.36	15.24	36.3
Exhaust Gas Flow	M³/min	4.26	6.48	8.04	16.8	34.68	38.04	82.2

	PERKINS POWERED							
Genset Model	APD22PE	APD33P	APD66P	APD110PE	APD200P	APD275PE	APD500PE	
Model		404D-22G	1103A-33G	1103A-33TG2	1104C-44TAG2	1106A-70TAG3	1306A-E87TAG6	2506C-E15TAG1
Engine Power Output	kWm	20.6	31	60.5	103	179.8	250	451
at rated rpm	HP	27.6	41.6	81.1	138.1	241	335	604.6
Aspiration and Cooling	Natural	Natural	Turbocharged	Turbocharged & Intercooled	Turbocharged and air charge cooled	Turbocharged & Intercooled	Turbocharged, air to air charge cooling	
Total Displacement	Litre	2.216	3.3	3.3	4.4	7.01	8.7	15
No. of Cylinders and Build	4 - Inline	3 - Inline	3- Inline	4 - Inline	6 - Inline	6- Inline	6 - Inline	
Engine Speed	rpm	1500	1500	1500	1500	1500	1500	1500
Bord and Stroke	mmxmm	84x100	105x127	105x127	105x127	105x135	116.6x135.9	137x171
Compression Ratio		23.3:1	19.25:1	17.25:1	18.23:1	16:1	16.9:1	16:1
Governor		Mechanical	Mechanical	Mechanical	Electronic	Mechanical	ECM	ECM
Fuel Consumption at full load	L/hr	5.4	7.1	13.9	22.6	41.6	54	99
Oil Capacity	Litre	10.6	8.3	8.3	8	16.5	28.3	62
Coolant Capacity	Litre	7	10.2	10.2	12.6	21	24.2	58
Radiator Cooling Air	M³/min	40.2	53	89	165.6	252	494	722
Air Intake-Engine	M³/min	1.45	2.16	3.9	6.27	13.87	15.4	35.8
Exhaust Gas Flow	M³/min	3.94	5.8	10.4	16.3	33.85	44.9	94



VOLVO POWERED								
Genset Model		APD165V	APD550V					
Model		TAD731GE	TAD1641GE					
Engine Power Output	kWm	153	484					
at rated rpm	HP	208	658					
Aspiration and Cooling	Turbocharged- Intercooled	Turbocharged- Aftercooled						
Total Displacement	Litre	7.15	16.12					
No. of Cylinders and Build	6 Cylinder, In- Line	6 Cylinder,In- Line						
Engine Speed	rpm	1500	1500				·	
Bord and Stroke	mmxmm	108 x 130	144 imes165					
Compression Ratio		18:1	16.5:1					
Governor		Heinzman / EDC4	Volvo / EMS 2					
Fuel Consumption at full load	L/hr	34.9	103.2					
Oil Capacity	Litre	20	48					
Coolant Capacity	Litre	23.8	60					
Radiator Cooling Air	M³/min	180	423					
Air Intake-Engine	M³/min	10.65	38					
Exhaust Gas Flow	M³/min	30.2	92					

ALTERNATOR

Brushless, single bearing system, flexible disc, 4 poles Insulation class H Standard degree of protection IP23 (IP22 is available.) Self-exciting and self-regulating

Impregnation with tropicalised epoxy varnish Solid state Automatic Voltage Regulator Stator winding with 2/3 pitch for improved harmonics

Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%



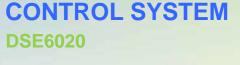
c) Alarms:

Over and Under Speed Low and High Battery Volt. Start and Stop Failure Charge fail Over Current Under / Over Generator Voltage Low Oil Pressure Emergency stop High engine temperature

d) LED indications Mains available Generator available Mains on load Generator on load

2. Power outlet terminal board mounted on the genset base frame





Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1. Auto mains failure control panel

Panel equipments: Control with AMF module Static battery charger Emergency stop push button

a) Generating set control module DSE 6020 features:

The module is used to monitor main supply and starts and stops of a standby generating set Micro-processor based design Automatic control of main and generator contactors Monitors engine performance and AC power output LED alarm indication Front panel configuration of timers and alarm trip point CAN and magnetic pick-up versions(specify on ordering) 4 digital inputs/3 analogue inputs 6 outputs(4 configurable on Magnetic Pick-up, 6 configurable on CANbus version) Easy push button control

STOP/RESET - MANUAL - AUTO - TEST - START

b) Metering via LED display:



AKSA POWER GENERATION

CONTROL SYSTEM

DSE7320

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

Auto Mains Failure Control Panel Panel equipments: Control with AMF module Static battery charger Emergency stop push button

a) Generating set control module DSE 7320 features:

The module is used to monitor mains supply and starts and stops of a standby generating set Micro-processor based design Automatic control of main and generator contactors Monitors engine performance and AC power output LED alarm indication Front panel configuration of timers and alarm trip points Easy push button control STOP/RESET - MANUAL –TEST- AUTO – MUTE ALARM – START

b) Metering via LED display:

Generator Volts (L-L / L-N) Engine oil pressure (PSI-Bar) Generator Ampere (L1,L2,L3) Engine temperature (° C&° F) Generator Frequency (Hz) Plant battery volts Engine hours run Mains Volts (Ph-Ph/Ph-N) Generator kVA, kWh Generator kW as % of rated kW setting Generator Cos (σ)







c) Alarms:

Over and Under Speed Low and High Battery Volt. Start and Stop Failure Charge fail Over Current Under / Over Generator Voltage Low Oil Pressure Emergency stop High engine temperature kW overload Unbalanced load Independent earth fault trip

d) LED Indications

Four configurable LED's like: Mains available Generator available Mains on load Generator on load Power Outlet Terminal Board Mounted on the Gen-set Base frame