

Natural Gas Output	170kW 170kVA Prime	187kW 187kVA Standby
Propane Output	136kW 136kVA Standby	Engine Speed 1800 rpm



Key Generator Features:

- ALTASTREAM GASIFIED CUMMINS heavy-duty industrial engine
- Oversized Stamford Alternator
- Deep Sea digital control panel
- Natural gas, field gas or propane
- Heavy-duty skid
- CSA Certified
- Complete factory acceptance and full load testing

Low Emissions: Our optional factory installed AFR Controller and custom 3-Way catalyst ensures smooth, efficient operation while exceeding industry standard emission requirements.

APEX S2 Enclosure: In-house, heavy duty, custom designed packaging allows for ease of use and full service access, while ensuring minimal noise output.

Single Source Supplier: AltaStream delivers turn key, fully packaged solutions which allow for seamless installation. Engineering and technical staff are standing by to assist.

Extended Service: All AltaStream products feature proven, industrial engines. Optional Extended Maintenance kits allow for increased service intervals and improved uptime.

A one-year limited warranty covers all systems and components.

Voltage	Phase	Hertz	Max. Amps Nat Gas	Max. Amps Propane
120/208	3	60	519	378
277/480	3	60	225	164
347/600	3	60	180	131

RATINGS: All kW and KVA ratings are electrical outputs, after fan and efficiency losses. Propane output ratings may differ from natural gas ratings. No overload capacity is available when using propane fuel gas. Prime ratings are for continuous output not exceeding 80% load on average, with 10% overload capacity one hour in twelve hours. Continuous ratings are for un-interrupted output not exceeding 100% load. Given ratings are based on 22 C (72 F) ambient temperature, 30% relative humidity, 900 Btu/ft³ SLHV natural gas, and 50 m (164 ft) elevation.

GENERAL GUIDELINES FOR DERATION: ALTITUDE: Derate 5% per 305 m (1000 ft) elevation above 610 m (2000 ft). AMBIENT TEMPERATURE: Derate 10% per 5.5 C (10 F) temperature above 35 C (95 F).

ALTASTREAM reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

ENGINE

Make / Model	CUMMINS DIESEL Gasified by AltaStream / NTA855
Configuration	In-line 6 cylinder, liquid cooled
Aspiration	Turbocharged, air-to-air intercooled
Exhaust Manifold	Wet
Displacement / Bore x Stroke	14 L (854 in ³) / 140x152 mm (5.51x5.98 in)
Compression Ratio	8.5:1
Rated Output Power	294 bhp
Rotation	Counter-clockwise viewed from flywheel
Flywheel Housing	SAE #1/14

ACCESSORIES

Carburetor	Impco Venturi Mixer
Inlet Gas Pipe Size / Pressure	2 in. / 20-25 PSI. Please inquire for other installs
Ignition	AFS Raven
Electrical System	24VDC Starting & Charge Alternator
Cooling System	Thermostat w/ belt driven pump and fan

FLUIDS

Oil Pan Capacity	38.6 L (10.2 USG)
Coolant Capacity	40 L (10.6 USG)
Oil / Coolant Type	15W40 Low Ash / 50% Glycol, 50% Water

ENCLOSURE OPTIONS

APEX S2, FPaK, GPaK

NOISE LEVEL

74 dbA @ 7 m (23 ft) w/ APEX S2 enclosure

FUEL CONSUMPTION (PRIME POWER)

	50% Load	75% Load	100% Load
Pipeline Natural Gas (MBtu/h)	1150	1660	2040
HD5 Propane (USG/h)	11.2	16.1	19.8

EMISSIONS LEVELS (100% LOAD)

	NO_x	CO
Engine Emissions Level (g/hp-hr)	10.50	1.20
Catalyst Emissions Level, If Equipped (g/hp-hr)	0.50	1.00

GENSET DIMENSION / WEIGHT

	Open Skid	Skin Tight	APEX S2
Dimensions L x W x H (in)	114 x 48 x 73	n/a	174 x 63 x 97
Weight (lbs)	7500	n/a	10525

EMISSIONS: The emissions data provided is based on standard operating temperature, rating, altitude, and pipeline quality gas.

ALTERNATOR

Make / Model	Stamford / UCIDI274J
Ratings (Shown for 480V Models)	
150C Standby	255 kWe / 318 kVA
105C Prime	220 kWe / 275 kVA
80C Continuous	194 kWe / 242 kVA
Insulation	Class H
Excitation Method	PMG
AVR	MX341
Leads / Winding / Hz / RPM / Phase / PF	12 / 311 / 60 / 1800 / 3 / 0.8
Protection	IP23
Rotor	Single Bearing

CONTROLLER

Make / Model	Deep Sea Electronics / DSE7320
<ul style="list-style-type: none"> ◦ 4-Line back-lit LCD text display ◦ Five key menu navigation ◦ Front panel editing with PIN protection ◦ Customisable status screens ◦ Power save mode ◦ Support for up to three remote display units ◦ 9 configurable inputs ◦ 8 configurable outputs ◦ Flexible sender inputs ◦ Configurable timers and alarms ◦ 3 configurable maintenance alarms ◦ Multiple date and time scheduler ◦ Configurable event log (250) ◦ CAN engine support ◦ Integral PLC editor ◦ Easy access diagnostic page ◦ CAN and Magnetic Pick-up/Alt. sensing ◦ Fuel usage monitor and low fuel alarms ◦ Charge alternator failure alarm ◦ Manual speed control (on compatible CAN engines) ◦ Manual fuel pump control ◦ Engine exerciser ◦ "Protections disabled" feature ◦ kW & kV Ar protection 	<ul style="list-style-type: none"> ◦ Reverse power (kW & kV Ar) protection ◦ LED and LCD alarm indication ◦ Power monitoring (kW h, kV Ar, kV A h, kV Ar h) ◦ Load switching (load shedding and dummy load outputs) ◦ Unbalanced load protection ◦ Independent Earth Fault trip ◦ USB connectivity ◦ Backed up real time clock ◦ Fully configurable via DSE Configuration Suite PC software ◦ Configurable display languages ◦ Remote SCADA monitoring via DSE Configuration Suite ◦ User selectable RS232 and RS485 communications ◦ Configurable Gencomm pages ◦ Advanced SMS messaging (additional external modem req'd) ◦ Start & stop capability via SMS messaging ◦ Additional display screens to help with modem diagnostics ◦ Idle control for starting & stopping ◦ DSENet® expansion compatible ◦ Real-time clock provides accurate event logging ◦ Multiple date and time scheduler ◦ Set maintenance periods can be configured ◦ Ethernet communications provides remote monitoring ◦ IP65 rating offers increased resistance to water ingress ◦ PLC editor allows user configurable functions