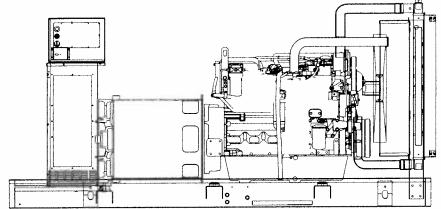
Industrial Diesel Generator Set

EPA Certified Stationary Emergency

1 of 5

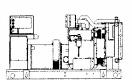
Standby Power Rating 313kVA 250kW

Prime Power Rating* 281kVA 225KW 60Hz



Generator image used for illustration purposes only

*EPA Certified Prime ratings are not available in the U.S. or its Territories for engine model year 2011 and beyond









features

Generator Set

- PROTOTYPE & TORSIONALLY TESTED
- UL2200 TESTED
- RHINOCOAT PAINT SYSTEM
- WIDE RANGE OF ENCLOSURES AND TANKS

benefits

- **PROVIDES A PROVEN UNIT**
- **ENSURES A QUALITY PRODUCT** IMPROVES RESISTANCE TO ELEMENTS
- PROVIDES A SINGLE SOURCE SOLUTION

Engine

- EPA COMPLIANT
- INDUSTRIAL TESTED, GENERAC APPROVED
- POWER-MATCHED OUTPUT
- INDUSTRIAL GRADE

- **ENVIRONMENTALLY FRIENDLY**
- **ENSURES INDUSTRIAL STANDARDS**
- ENGINEERED FOR PERFORMANCE
- IMPROVES LONGEVITY AND RELIABILITY

- TWO-THIRDS PITCH
- LAYER WOUND ROTOR & STATOR
- CLASS H MATERIALS
- DIGITAL 3-PHASE VOLTAGE CONTROL
- ELIMINATES HARMFUL 3RD HARMONIC
- IMPROVES COOLING
- HEAT TOLERANT DESIGN
- FAST AND ACCURATE RESPONSE

- 4-20mA VOLTAGE-TO-CURRENT SENSORS SURFACE-MOUNT TECHNOLOGY
- ADVANCED DIAGNOSTICS & COMMUNICATIONS

ENCAPSULATED BOARD W/ SEALED HARNESS

- EASY, AFFORDABLE REPLACEMENT
- NOISE RESISTANT 24/7 MONITORING
- PROVIDES VIBRATION RESISTANCE
- HARDENED RELIABILITY















application and engineering data

ENGINE SPECIFICATIONS

<u>General</u>	
Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	6
Type	In-Line
Displacement - L (cu. in.)	8.7
Bore - mm (in.)	117 (4.61)
Stroke - mm (in.)	135 (5.31)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	4- Valve
Piston Type	Atuminum
Crankshaft Type	Dropped Forged Steel

Engine Governing

Electronic Isochronous Governor Frequency Regulation (Steady State) ± 0.25%

Lubrication System

Oil Pump Type Oil Filter Type Crankcase Capacity - L (qts)

Gear	
Full-Flow	16601
28 (29.57)	

Cooling System

Closed Recovery Cooling System Type Water Pump Flow Pre-Lubed, Self Sealing Pusher Fan Type Fan Speed (rpm) 1854 rpm Fan Diameter mm (in.) 762 (30.0) Coolant Heater Wattage 2000 Coolant Heater Standard Voltage 240VAC

Fuel System

100 1 0 16 00 15 1
Ultra Low Sulfur Diesel Fuel
ASTM
5
Electronic
Engine Driven Gear
Common Rail
Direct Injection
12.7(½")
12.7(1/2")

Engine Electrical System

System Voltage **Battery Charging Alternator** Battery Size (at 0°C) **Battery Group** Battery Voltage **Ground Polarity**

	24VDC	
	Std	
	995 CCA	
	31	
	(2) ~ 12VDC	
537	Negative	

ALTERNATOR SPECIFICATIONS

Standard Model	520 mm Generac
Poles	(i)
Field Type	Revolving
Insulation Class - Rotor	z granium H arinavas
Insulation Class - Stator	Н
Total Harmonic Distortion	< 5%
Telephone Interference Factor (TIF)	< 50
Standard Excitation	Permanent Magnent
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes

Voltage Regulator Type **Number of Sensed Phases** Regulation Accuracy (Steady State)

	Digital	
0.1	All	
	+ 0.25%	

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99

BS5514

NFPA 110 ISO 8528-5 SAE J1349

ISO 1708A.5

DIN6271

IEEE C62.41 TESTING

ISO 3046

NEMA ICS 1

operating data (60Hz)

POWER	RATINGS	(kW)
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		STANDBY		PRIME		
Single-Phase 120/240VAC @1.0pf	250 kW	Amps: 1042	225 kW	Amps: 938		
Three-Phase 120/208VAC @0.8pf	250 kW	Amps: 867	225 kW	Amps: 781		
Three-Phase 120/240VAC @0.8pf	250 kW	Amps: 752	225 kW	Amps: 677		
Three-Phase 277/480VAC @0.8pf	250 kW	Amps: 376	225 kW	Amps: 338		
Three-Phase 346/600VAC @0.8pf	250 kW	Amps: 301	225 kW	Amps: 271		

STARTING CAPABILITIES (SKVA)

sKVA vs. Voltage Dlp

				480	VAC					208/2	40VAC		
Alternator	<u>kW</u>	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	250	263	395	527	658	790	922	197	296	395	494	593	692
Upsize 1	300	303	454	605	757	908	1059	227	341	454	568	681	794
Upsize 2	350	383	575	767	958	1150	1342	280	410	535	640	770	900

FUEL

Fuel Consumption Rates*

STANDBY			PRIME	
gph	lph	Percent Load	gph	

36 (900)
Total Fuel Requirement Capacity - Iph (gph)
98 (26)

	STANDOT			LUHYIL	
Percent Load	gph	lph	Percent Load	gph	lph
25%	5.5	20.8	25%	5	18.9
50%	10.4	39.4	50%	9.5	36.0
75%	14.8	56.0	75%	13.5	51.1
100%	18.5	70.0	100%	16.8	63.6

^{*} Refer to "Emissions Data Sheet" for maximum fuel flow for EPA and SCAQMD permitting purposes.

COOLING

		STANDBY	PRIME
Coolant Flow per Minute	gpm (lpm)	63.3 (240)	63.3 (240)
Heat Rejection to Coolant	BTU/hr	682,058	619,382
Inlet Air	cfm (m3/min)	8,872 (251)	8,872 (251)
Max. Operating Radiator Air Temp	F ⁰ (C ⁰)	122 (50)	122 (50)
Max. Operating Ambient Temperature	F° (C°)	104 (40)	104 (40)
Coolant System Capacity	gal (L)	12.7 (49.2)	12.7 (49.2)
Maximum Radiator Backpressure	in H ₂ O	1.5	1.5

COMBUSTION AIR REQUIREMENTS

		STANDBY	PRIME
Flow at Rated Power	cfm (m3/min)	720 (20.39)	648 (18.35)

ENGINE

		STANDBY	PRIME
Rated Engine Speed	rpm	1800	1800
Horsepower at Rated kW**	hp	389	350
Piston Speed	ft/min	1593	1593
ВМЕР	psi	332	299

^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

EXHAUST

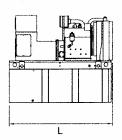
		STANDBY	PRIME
Exhaust Flow (Rated Output)	cfm (m³/min)	1550 (43.9)	1395 (39.5)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	1000 (538)	900 (482)
Exhaust Outlet Size (Open Set)	NPT (male)	101.6 (4)	101.6 (4)

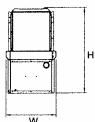


standard features and options

GEN	IERATOR SET		CON	NTROL SYSTEM	
_	Cancat Vibration Isolation	Std		Control Panel	
•	Genset Vibration Isolation	Opt	•	Digital H Control Panel - Dual 4x20 Display	Std
0	IBC Seismic Certified/Seismic Rated Vibration Isolators	Opt Opt	0	Digital G-100 Control Panel - Touchscreen	na
0	Extended warranty		0	Digital G-200 Paralleling Control Panel - Touchscreen	na
0	Gen-Link Communications Software	Opt Opt	•	Programmable Crank Limiter	Std
0	Steel Enclosure	Opt	0	21-Light Remote Annunciator	Opt
0	Aluminum Enclosure	Opt	0	Remote Relay Panel (8 or 16)	Opt
	WATER	- AM	•	7-Day Programmable Exerciser	Std
ENG	INE SYSTEM	\$\frac{1}{2} \frac{1}{2} \frac{1}{2}	•	Special Applications Programmable PLC	Std
	General		•	RS-232	Std
•	Oil Drain Extension	Std	•	RS-485	Std
0	Oil Make-Up System	Opt	•	All-Phase Sensing DVR	Std
Ō	Oil Heater	Opt	_	Full System Status	Std
•	Air cleaner	Std		Utility Monitoring (Reg. H-Transfer Switch)	Std
•	Fan guard	Std		2-Wire Start Compatible	Std
•	Radiator duct adapter	Std		Power Output (kW)	Std
•	Thadiator days adaptor			Power Factor	Std
	Fuel System			Reactive Power	Std
_		Std	•		
•	Fuel lockoff solenoid		•	All phase AC Voltage	Std
•	Secondary fuel filter	Std	•	All phase Currents	Std
•	Stainless steel flexible exhaust connection	Std	•	Oil Pressure	Std
•	Industrial Exhaust Silencer	Std	•	Coolant Temperature	Std
0	Critical Exhaust Silencer	Opt	•	Coolant Level	Std
0	Flexible fuel lines	Opt	0	Oil Temperature	Opt
0	Primary fuel filter	Opt	•	Fuel Pressure	Std
0	Single Wall Tank (Export Only)	•	•	Engine Speed	Std
0	UL 142 Fuel Tank	Opt	•	Battery Voltage	Std
	Cooling System		•	Frequency	Std
_	120VAC Coolant Heater	Opt	•	Date/Time Fault History (Event Log)	Std
0			0	Low-Speed Exercise	es.
0	208VAC Coolant Heater	Opt Std	•	Isochronous Governor Control	Std
•	240VAC Coolant Heater	Siu	•	-40deg C - 70deg C Operation	Std
0	Other Coolant Heater	C14	•	Waterproof Plug-In Connectors	Std
•	Closed Coolant Recovery System	Std	•	Audible Alarms and Shutdowns	Std
•	UV/Ozone resistant hoses	Std	•	Not in Auto (Flashing Light)	Std
•	Factory-Installed Radiator	Std	•	Auto/Off/Manual Switch	Std
•	Radiator Drain Extension	Std	•	E-Stop (Red Mushroom-Type)	Std
	Engine Electrical System		0	Remote E-Stop (Break Glass-Type, Surface Mount)	Opt
•	Battery charging alternator	Std	0	Remote E-Stop (Red Mushroom-Type, Surface Mount)	Opt
•	Battery cables	Std	0		Opt
•	Battery tray	Std	•	NFPA 110 Level I and II (Programmable)	Std
Ō	Battery box	Opt	•	Remote Communication - R\$232	Std
Ö	Battery heater	Opt	Ō	Remote Communication - Modern	Opt
•	Solenoid activated starter motor	Std	0	Remote Communication - Ethernet	Opt
0	10A UL float/equalize battery charger	Opt	Ö	10A Run Relay	Opt
	Rubber-booted engine electrical connections	Std		·	Орг
•	Napper-pooted engine electrical connections	Sid		Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)	
AITE	RNATOR SYSTEM	1 40	0	Low Fuel	Opt
ALIE	CHINATOR STOTEM		•	Oil Pressure (Pre-programmed Low Pressure Shutdown)	Std
•	UL2200 GENprotect™	Std	•	Coolant Temperature (Pre-programmed High Temp Shutdown)	Std
Ο	Main Line Circuit Breaker	Opt	•	Coolant Level (Pre-programmed Low Level Shutdown)	Std
О	2nd Circuit Breaker	Opt	•	Oil Temperature	Std
0	3rd Circuit Breaker	-	•	Engine Speed (Pre-programmed Overspeed Shutdown)	Std
0	Alternator Upsizing	Opt	•	Voltage (Pre-programmed Overvoltage Shutdown)	Std
0	Anti-Condensation Heater	Opt	•	Battery Voltage	Std
0	Tropical coating	Opt		Other Options	
•	Permanent Magnet Generator	Std	0		
	•		0		
			0		

dimensions, weights and sound levels

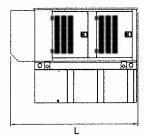


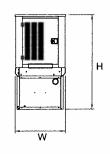


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	OPEN SET
	RUN TIME
	NO T
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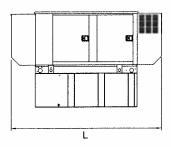
DEN 2E1						
RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	Н	WT	dBA*
NO TANK	~	128	54	58	5016	
8	153	128	54	71	6021	
20	372	128	54	83	6443	
32	589	128	54	95	6860	87
37	693	136	54	95	6581]
51	946	208	54,	99	8041	
72	1226	270	5.4	00	0056	1

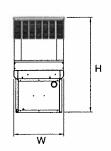




WEA	THERPI	300F	ENCL	OSURE

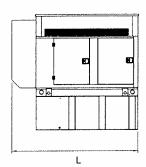
RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	Н	WT	dBA*
NO TANK	-	155	54	70	6316	
8	153	155	54	83	7321	
20	372	155	54	95	7743	
32	589	155	54	107	8160	83
37	693	155	54	107	7881	
51	946	208	54	111	9341	
72	1325	278	54	111	10356	

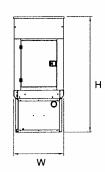




LEVEL 1 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	Н	WT	dBA*
NO TANK	-	180	54	70	6820	
8	153	180	54	83	7825	
20	372	180	54	95	8247	
32	589	180	54	107	8664	76
37	693	180	54	107	8385	
51	946	234	54	111	9845	
72	1325	304	54	111	10860	



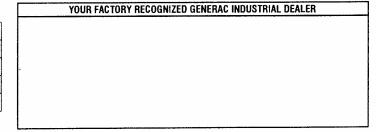


LEVEL 2 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	Н	WT	dBA*
NO TANK		155	54	93	6663	
8	153	155	. 54	106	7668	
20	372	155	54	118	8090	
32	589	155	54	130	8507	74
37	693	155	54	130	8228	
51	946	208	54	132	9688	
72	1325	278	54	132	10703	

*All measurements are approximate and for estimation purposes only. Weights are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

	Tank Options	
0	MDEQ	OPT
0	Florida DERM/DEP	OPT
0	Chicago Fire Code	OPT
0	IFC Certification	CALL
0	ULC	CALL



Other Custom Options Available from your Generac Industrial Power Dealer

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

	4
•	