



Industrial Diesel Generator Set

EPA Certified Stationary Emergency

Standby Power Rating 1250 kW 1563 kVA 60 Hz

Prime Power Rating* 1125 kW 1406 kVA 60 Hz

*EPA Certified Prime Ratings are not available in the US or its Territories

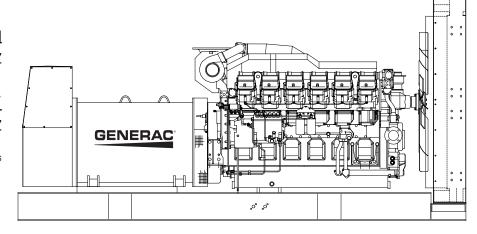


Image used for illustration purposes only

Powering Ahead

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

Standby and Prime Power Features

- \checkmark Heavy-duty industrial diesel engine that meets the latest EPA emissions levels
- ✓ Brushless synchronous alternators with dynamic balancing and four pole construction
- ✓ Fully featured microprocessor based controller that's easy to use and field programmable for customized installations
- ✓ Generator sets are prototype tested and production tested to ensure easy startup
- ✓ Gen-set accepts rated load in one step
- ✓ Heavy duty construction that's designed for use in prime or standby applications
- ✓ Manufactured in a dedicated and secure ISO-9001 certified facility
- ✓ Generator sets are backed by a world wide network of parts and service centers
- ✓ Optional agency approvals available including UL2200 and NFPA110
- ✓ Optional environmental enclosures available including weather resistant, sound attenuated, containerized, and walk-in models
- ✓ Full range of genset accessories and factory installed options available

Genset Ratings

Genset Model Number	Alternator	Voltage L-N / L-L	Phase	Hertz	150°C Rise Standby Rating		125°C Rise Prime Rating	
					kW / kVA	Amps	kW / kVA	Amps
IDLC1250-2M		220/380	3	60	1004/1255	1909	965/1206	1835
	PI734A-312	240/416	3	60	1141/1426	1982	1098/1373	1907
		254/440	3	60	1217/1521	1998	1125/1406	1847
		277/480	3	60	1250/1563	1882	1125/1406	1693
	PI734A-07	347/600	3	60	1250/1563	1505	1125/1406	1355
		220/380	3	60	1116/1395	2122	1072/1340	2038
	PI734B-312	240/416	3	60	1250/1563	2171	1125/1406	1954
		254/440	3	60	1250/1563	2053	1125/1406	1847
		277/480	3	60	1250/1563	1882	1125/1406	1693

NOTES: Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime – Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications.

Power ratings in accordance with ISO 8528-1, Second Edition dated 2005-06-01, definitions for Prime Power (PRP) and Emergency Standby Power (ESP).

Alternator Specifications

Alternator Type 4-Pole, Rotating Field

Exciter Type Brushless Excitation System PMG

Insulation per NEMA MG1

Material Class H
Standby Temp Rise 150°C
Prime Temp Rise 125°C

Lead Connection 6 Lead, Reconnectable

Stator Pitch 2/3 Amortisseur Winding Full

Bearing Single, Double Shielded

Drive Coupling Flexible Disk

Unbalanced Load 20% of Standby Rating

Automatic Voltage Regulator

PMG Std MX321

Voltage Regulation No Load to Full Load

PMG Regulator +/- 0.5%

Load Acceptance 100% of Rating,

One Step

Subtransient Reactance

480V, Per Unit 15% TIF (1960 Weighting) <50

Line Harmonics 5% Maximum

Motor Starting kVA 30% Max Voltage Dip Alt @ 480V SkVA PI734A-312 - 2700 Alt @ 480V SkVA PI734B-312 - 3320

Genset Controller Specifications

Generac InteliGen NT Features

Large back-lit graphical LCD Display 64x128 pixel resolution

Sealed Membrane Panel to IP65

Push Buttons for Simple Control

Start, Stop, Fault Reset, Horn Reset, Mode,

Page, and Enter Keys

Display Metering and Protection

Oil Pressure Warning / Shutdown

High/Low Coolant Temperature Warning

High Coolant Temperature Shutdown

Low Coolant Level Shutdown

Low Fuel Level Warning / Shutdown

Over Speed Protection

Battery Voltage Under/Over Warning

Running Hour Meter

Generator Under/Over Volts Warn/Shutdown

Generator Under/Over Freq Warn/Shutdown

Generator Over Current Shutdown

Generator Output Metering for V1-V3, I1-I3,

Hz, kW, kWh, kVAr, kVAh

User Configurable Inputs and Outputs

Up to 500 Event Based History Records

Integrated PLC Programming Functions

Interface to Remote Display or

Remote Annunciator

Controller capable of Both Single or Multiple Gensets Operating in Standby or

Parallel Modes



NFPA110 Compliance

An optional Remote Annunciator is available to meet NFPA110 applications

Remote Annunciator Features – RA15 15 LED Indicators with Function Labels Horn Reset and Lamp Test keys CAN Bus Connection for up to 600 Feet





Engine Application Data

Familia Considirations		Funite - Florida - October	
Engine Specifications		Engine Electrical System	0.4
Manufacturer	Mitsubishi	Charging Alternator Volts dc	24
Engine Model #	S12R-Y2PTAW-1	Charging Alternator Amps	30
Engine Type	4 Cycle, 12 Cylinder	Grounding Polarity	Negative
Induction System	Turbocharged,	Starter Motor Volts dc	24
	Inter Cooler	Battery Recommendations	
Displacement, L (in ³)	49 (2992)	Battery Volts dc	24
EPA Emissions Level	Tier 2	Min Cold Cranking Amps	1100
HP at Rated Speed BHP (kWm) Rated RPM	1881 (1403) 1800	Quantity Required	4
Bore and Stroke in(mm)	6.69 x 7.09 (170 x 180)	Ventilation Requirements	
Compression Ratio	14.5:1	Cooling Airflow scfm(cmm)	62160 (1761)
Air Filter Type	Dry	Combustion Airflow cfm(cmm)	4767 (135)
Governor Type/Model	Proact2	Heat Rejected to Ambient	
Governor Manufacturer	Woodward	From Engine Btu/min(kW)	6703 (118)
Freq Reg NL to FL	Isochronous	From Alternator Btu/min(kW)	3583 (63)
Freq Reg Steady State	+/- 0.25%	Recommended Free Area Intake	,
,		Louver Size ft ² (m ²)	134.0 (12.45)
Engine Lubrication System		,	,
Oil Pan Capacity gal(L)	39.6 (150.0)	Engine Fuel System	
Oil Pan w/Filter	47.6 (180.0)	Recommended Fuel	#2 Diesel
Oil Filter Quantity	4	Fuel Line at Engine	
Oil Filter Type	Cartridge	Supply Line Min ID in(mm)	0.75 (19)
Oil Cooler	Water Cooled	Return Line Min ID in(mm)	0.75 (19)
Recommended Oil	15W-40	Fuel Pump Type	Engine Driven
Oil Press psi(kPa)	71 (490)	Fuel Pump Max Lift ft (m)	3 (1)
. , ,	,	Max Flow to Pump gph(Lph)	126.6 (479.2)
Engine Cooling System		Fuel Filter	, ,
Genset Max Ambient Temp °F(°C)	113 (45)	Secondary Filter	4 μm
Engine Coolant Cap qt(L)	137.2 (129.8)	Secondary Water Separator	Not Included
Engine + Radiator System Cap qt(L)	538.0 (509.1)	Primary Filter	Optional
Water Pump Type	Centrifugal	Primary Water Separator	Optional
Coolant Flow gpm (Lpm)	489 (1850.9)		
Charge Cooler Flow gpm (Lpm)	90 (340.7)	Fuel Consumption - Standby Rat	ing
Heat Rejected to Cooling Water		100% Load gph(Lph)	103.3 (391.0)
@ Rated kW; Btu/min (kW)	29045 (510.5)	75% Load gph(Lph)	75.6 (286.1)
Heat Rejected to Charge Cooler		50% Load gph(Lph)	52.3 (198.0)
@ Rated kW; Btu/min (kW)	29045 (510.5)	25% Load gph(Lph)	30.9 (117.0)
Heat Rejected to Ambient Air			
@ Rated kW; Btu/min (kW)	6703 (117.8)	Fuel Consumption - Prime Rating	g
Max Restriction of Cooling Air	. ,	100% Load gph(Lph)	94 (355.8)
inH ₂ O(kPa)	0.5 (0.124)	75% Load gph(Lph)	68.8 (260.4)
` ,	,	50% Load gph(Lph)	47.6 (180.2)
Engine Exhaust System		25% Load gph(Lph)	28.1 (106.4)
Exhaust Manifold Type	Dry	0. ,	, ,
Exhaust Flow @ Rated kW cfm(cmm)	•	Engine Output Deratings - Stan	dhy
Exhaust Temp (dry manifold) °F(°C)	934 (487)		40°C
Max Back Pressure inH2O(kPa)	23.6 (5.9)	Rated Temp Rated Altitude	1500 m
Exhaust Outlet Diameter in(mm)	11.97 (304)	Max Altitude	5000 m
Exhaust Outlet Type	JIS300A (approx 12")		
71	,	Temperature Derate	-5% / 10°C



-1% / 100 m

Altitude Derate

Additional Standard Genset Features

- ✓ Structural Steel Sub-Base
- ✓ Sub-Base Lifting Eyes
- ✓ Unit Mounted Radiator
- ✓ Radiator Mounted Fan
- ✓ Fan Guard
- ✓ Battery Charging Alternator
- ✓ Battery Rack and Cables
- ✓ Unit Mounted Control Panel
- ✓ Spin-On Filters for Oil and Fuel
- ✓ Enamel Finish
- ✓ One Set Operation / Maintenance Manual
- ✓ Factory Tested Prior to Shipment
- ✓ Limited Warranty

Optional Agency Approvals

- ☐ UL2200 (Review Option Availability)
- ☐ NFPA110 (Request Remote Annunciator)

Weight and Dimensions (Open Unit)

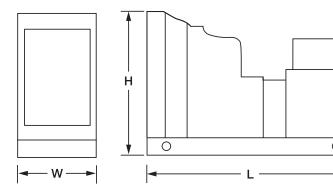
 Weight – Wet lb(kg)
 26045 (11814)

 Overall Dimensions
 Length x Width x Height

 inches
 212 x 93 x 108

 mm
 5385 x 2362 x 2743

Note: Drawing is provided for reference only. Use engineering outline for installation planning



Available Accessories and Options

_	en Unit						
	Industrial Silencer		Residential Silencer				
	Critical Silencer		Super Critical Silencer				
	Exhaust Flex Pipe		Rain Cap				
	Radiator Duct Flange	9					
En	Enclosed Units						
	Weather Resistant Enclosure						
	Sound Attenuated w/Internal Critical Silencer						
	ISO Container		Walk-In Enclosure				
Alt	ernator Accessorie	es					
	☐ PMG Exciter and AVR Upgrade						
	Alternator Space Hea	ate	r				
	Exciter Field Circuit Breaker						
	Alternator Drip Shield						
Ge	nset Accessories						
	Voltage Adjust Potentiometer						
	Starting Battery						
Battery Charger							
Auto/Float Equalize Timer ☐ Manual ☐ Automatic							
	J Battery Heater						
	Engine Coolant Heater						
	Oil & Coolant Drain Valves (Engine/Radiator)						
	☐ Oil & Coolant Drain Extended to Base						
Main Output Breaker ☐ Wall Mount ☐ Unit Mount							
Transfer Switch ☐ Manual ☐ Automatic							
Co	ntrol Panel						
	Remote Annunciator						
	Remote Communica	tior	าร				
	Remote E-Stop						
	el System and Sub	-В	ase Fuel Tank				
	=		Wall ☐ Double Wall				
	☐ UL142 Double Wall with Containment						
Tan	nk Run Time @ 100%	Lo	pad				
	☐ 12-16 Hours		24-36 Hours				
	Flex Fuel Line						
☐ Primary Fuel / Water Separator							
Vibration Isolators							
Loc	cation 🗆 Under Tan	k	☐ Between Tank				
	Flastomer Isolator						



☐ Spring for Seismic Zone 4

☐ Standard Spring