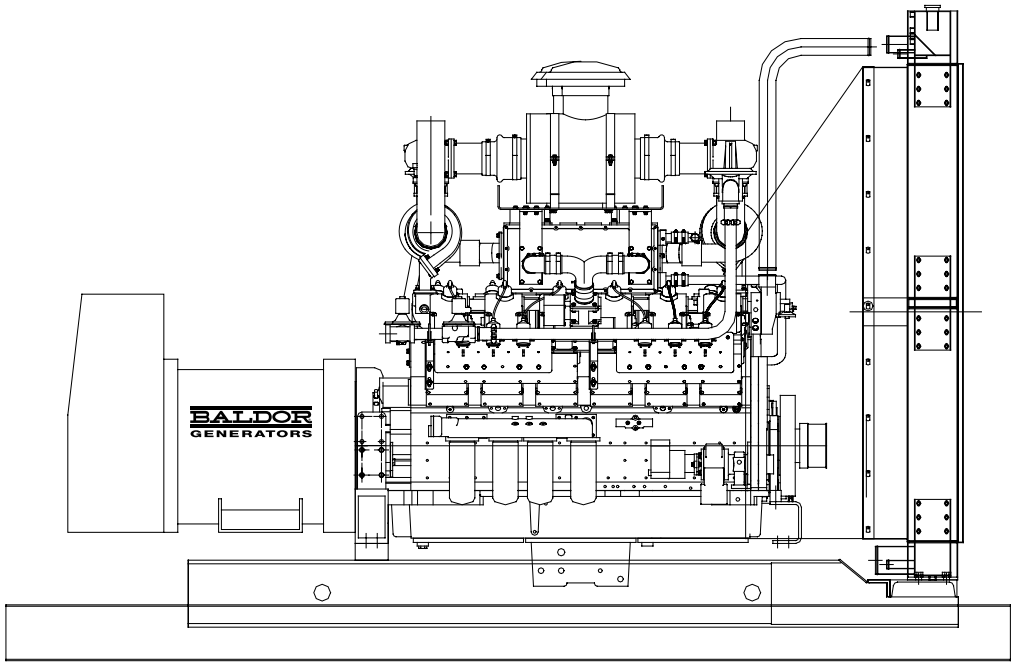
BALDOR GENERATORS

IGLC675NL-C



Standby or Prime Power Features

- Heavy-duty Cummins 4-stroke gas engine, water-cooled
- Brushless synchronous alternators: four-pole construction, dynamically balanced
- Full featured microprocessor based controller: fully programmable for maximum flexibility
- Prototype tested and production tested
- UL2200 available – consult factory
- Optional weather-proof and sound attenuated enclosures available
- Full range of accessories and options available
- Heavy-duty construction for use in prime or standby application
- Manufactured in an ISO-9001 certified facility
- Backed by a world wide network of parts and service centers

Gen Set Ratings

Baldor Genset Model	kW Rating Standby	kW Rating Prime	kW Rating Standby	kW Rating Prime	Voltage Hi-Wye	Voltage Low-Wye	Voltage Delta	Number of Leads	Phase	Hz	Power Factor
	Natural Gas 8.5:1		LP Gas 8.5:1								
IGLC675N/L-CB	675	600	675	600	480/277	240/139	N/A	12	3	60	0.8
IGLC675N/L-CB	675	600	675	600	440/254	220/127	N/A	12	3	60	0.8
IGLC675N/L-CB	675	600	675	600	416/240	208/120	N/A	12	3	60	0.8
IGLC675N/L-CC	675	600	675	600	380/220	N/A	N/A	12	3	60	0.8
IGLC675N/L-CH	675	600	675	600	600/347	N/A	N/A	12	3	60	0.8
IGLC675N/L-CXA	550	500	550	500	380/220	-	N/A	12	3	50	0.8

NOTES: For ratings and voltages not listed above refer to the Gen-Set Selector or consult factory
Standby ratings do not have an overload capability but can be used for the duration of the utility failure per ISO-3046,DIN6271 and BS5514
Prime (Unlimited Running Time) ratings are continuous per DIN 6271 and ISO-3046 with 10% overload capacity
Base Load (Continuous) ratings are continuous per DIN 6271, BS5514 and ISO-8528 with no sustained overload capacity
Consult factory for Base Load ratings
Altitude derate is 4% for each 1000 feet over 3000
Temperature derate is 1% for 10°F over 100°F ambient

Controls Digital Control Module

MEC2 Features

- Large Backlit LCD with alpha-numeric readout
- Microprocessor Based Design
- 16 programmable alarms/shutdowns set points
- 4 programmable inputs
- Alarm horn
- Not in Automatic Alarm
- Digital Three Phase Voltage and Current Monitoring
- Password Protected Front Panel Programming
- 4 Programmable Outputs
- Local Emergency Stop Switch
- Optional NFPA110 Level I

Engine Protections

- Digital Oil Pressure Gauge
- Digital Water Temperature Gauge
- Digital Battery Voltmeter
- Overspeed Shutdown
- Emergency Stop Shutdown
- Loss of Speed Signal
- Overcrank Shutdown

Designed To Meet/Exceed the Standards Below:

- UL 508
- UL 2200
- NFPA 70
- NFPA 110

Engine Technical Data

Manufacturer	Cummins
Engine Model	GTA38-G3
Engine Type	4 cycle, 12 cylinder
Aspiration	Turbocharged and Aftercooled
Configuration	60 Degree Vee
Displacement - cu. in. (liters)	2300 (37.8)
Bore and Stroke - in. (mm)	6.25 x 6.25 (159 x 159)
Compression Ratio	8.5:1
Air Filter Type	Dry
Governor Type	Electronic
Governor Model	Woodward Flowtech
Injection Pump Type/Model	75mm
Frequency Regulation, steady state	+/- 0.25%
Frequency Regulation, no load to full load	Isochronous
Battery Voltage	24 VDC
Water Pump Type	Centrifugal
Coolant Cap. - radiator cooled - gals - liters	TBA
Coolant Capacity - engine only - gals - liters	142 (134)
Oil Pan Capacity - gals - liters	140 - 114 37 - 30
Rec'd Oil Type - SF/CC/CD-10°F to 90°F	10W-40

Engine Operational Values	English 50 Hz	Metric 50 Hz	English 60 Hz	Metric 60 Hz
Maximum ambient temperature - F° - C°	100	38	100	38
Heat rejected to coolant - Btu/min - kW	35,256	619	41,381	727
Heat rejected to aftercooler - Btu/min - kW	4,549	80	5,340	94
Max. power at rated rpm - bhp - kWm	871	650	1,045	780
Coolant flow - gpm - lpm	345	22	411	26
Exhaust temperature - F° - C° (maximum)	1,350	732	1,350	732
Exhaust flow - cfm - m_/min	5,769	2,723	6,560	3,096
Gas pressure required - in. H2O - mm H2O	10 -20	254 - 508	10 -20	254 - 508
Minimum pipe size @ engine - in. - mm	2	51	2	51
Normal oil pressure high - PSI - kPa	45-70	310-483	45-70	310-483

Gen Set Technical Data

Alternator Technical Data			
Generator Frame	6	Voltage Regulation NL - FL	0.50%
Exciter	Brushless	Underspeed Protection	Standard
Cooling Fan	Cast alloy aluminum	Overexcitation Protection	Standard
Bearing	Single, double shielded	Overvoltage Protection	Standard
Connection Type	Reconnectable	Loss of Sensing Protection	Standard
Insulation Type	Class H	Overspeed	2250 RPM
Windings	100% copper	Standards	NEMA, IEC, IEEE, CSA, BS
Pitch	2/3	Phase Sequence	A(U), B(V), C(W)
Amortisseur Winding	Full	TIF (1960 Weightings)	<50
Voltage Regulator	MX321	Excitation System	PMG Std.

Alternator Performance Data	Model IGLC675N/L-CB	Model IGLC675N/L-CC	Model IGLC675N/L-CH
Temperature rise by resistance - °C (Stand-By)	150/40	150/40	150/40
Generator model number	HCI634G	HCI634H	HCI634G
Generator kW at 130/105/80°C over 40°C amb. (480 Volt , 60Hz)	740/675/588	850/770/680	740/675/588
SKVA output with 30% voltage dip max. 100% recovery at 60 Hz	2000	2300	2000
Maximum skva at 90% sustained voltage dip	Consult Factory	Consult Factory	Consult Factory
Subtransient reactance at voltage listed	18.00%	16.00%	18.00%
Line - line harmonic maximum total	3.50%	3.50%	3.50%

Installation/Application Data	English 50 Hz	Metric 50 Hz	English 60 Hz	Metric 60 Hz
Ventilation requirements				
a. Cooling airflow required - cfm - l/s (unit mounted radiator)	75,000	35,400	75,000	35,400
b. Combustion air required - cfm - l/s	2085	984	2,420	1,142
Total ventilation requirements - cfm - l/s (a. + b.)	77,085	36,384	77,420	36,542
Maximum cooling air restriction - in.H2O - mm.H2O	0.5	12.8	0.5	12.8
Minimum intake louver size (based on "free area") ft2 - m2	75	7.0	75	7.0
a. Heat rejected to ambient, engine - Btu/min - kW	3,980	70	4,672	82
b. Heat rejected to ambient, generator - Btu/min - kW	3,698	65	4,437	78
Total heat rejection to ambient - Btu/min - kW (a. + b.)	7,678	135	9,109	160
Exhaust system requirements				
Exhaust gas flow - cfm - m_/min	5,769	2,723	6,560	3,096
Exhaust temperature (dry manifold) - °F - °C	1,350	732	1350	732
Maximum back pressure - in.hg - mm.hg (inclusive of silencer)	2	50.8	2	50.8
Exhaust outlet size - in. - mm	5	127	5	127
Emissions - HC - g/hp-hr	Consult Factory		2.82	
Emissions - CO - g/hp-hr	Consult Factory		17.34	
Emissions - NOX - g/hp-hr	Consult Factory		4.70	
Fuel system requirements – *see engine operational values for gas pressure requirements*				
Fuel consumption - 1/4 load - cu.ft/hr - BTU/Hp-hr (natural gas)	2,606	2,051	3,186	2,507
Fuel consumption - 1/2 load - cu.ft/hr - BTU/Hp-hr (natural gas)	4,778	3,760	5,841	4,597
Fuel consumption - 3/4 load - cu.ft/hr - BTU/Hp-hr (natural gas)	6,226	4,900	7,611	5,990
Fuel consumption - Full load - cu.ft/hr - BTU/Hp-hr (natural gas)	7,239	5,697	8,850	6,965
Conversions: Cubic feet of Natural Gas/2.644 = Cubic Feet of LPG and Cubic Feet of LPG/8.533 = Gallons of LPG per hour - "estimated"				
Heat Exchanger Cooling system requirements				
Minimum raw water (city water) flow - gpm/lps	Consult Factory	Consult Factory	Consult Factory	Consult Factory
Maximum supply water temperature - ºF - ºC	80°F	12.44°C	80°F	12.44°C
Remote Cooling system requirements				
Maximum coolant static head - ft. - m	60	18.3	60	18.3
Ventilation required (based on 25ºF temp rise) - cfm - lps	17,063	300	20,243	356

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Accessories and Options

Control Panel
- ❑ High Coolant Temp. Pre-alarm
- ❑ Low Oil Pressure Pre-alarm
- ❑ Alarm Horn with Switch
- ❑ Remote Start-Stop
- ❑ Remote Annunciator

PER NFPA 110
- ❑ Run Relay
- ❑ Dry Contacts

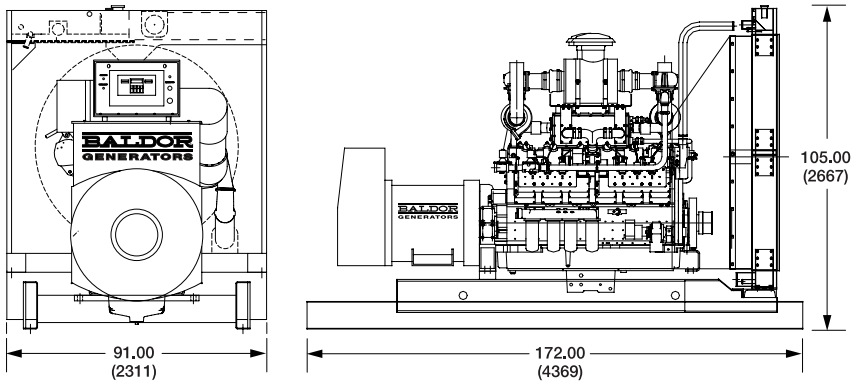
Engine Exhaust System
- ❑ Industrial Silencer
- ❑ Residential Silencer
- ❑ Critical Silencer
- ❑ Exhaust Flex
- ❑ Rain Cap
- ❑ _____

Generator Accessories
- ❑ Main Line Circuit Breaker
- ❑ Shunt Trip
- ❑ Alternator Heater
- ❑ Field Circuit Breaker
- ❑ PMG
- ❑ _____

Engine Electrical System
- ❑ Batteries
- ❑ Battery Rack
- ❑ Battery Cables
- ❑ Battery Charger - Automatic
- ❑ Battery Charger - Trickle
- ❑ _____

Engine Fuel System
- ❑ Flexible Fuel Lines
- ❑ _____

Miscellaneous
- ❑ Weather protective Enclosure
- ❑ Sound Attenuated Enclosure
- ❑ Vibration Isolators
- ❑ Coolant Heater
- ❑ _____



Dimensions – in (mm)

Weight – lbs. (Kg)
17,224 (7813)

Cubes (Approximate)
950 ft

*Open unit configuration, accessories not included

Ratings – Standby Ratings: Standby ratings are applicable for supplying emergency power for the duration of a utility power outage. Primary power to the installation is utility supplied. No overload capability for standby rating. Standby ratings in accordance with ISO 3046, BS55114, DIN 6271. **Continuous Power Rating:** Continuous power is the maximum power available for continuous duty. A 10% overload capacity is available for 1 hour out of 12 hours of operation. Prime Power ratings in accordance with ISO 3046, BS55114, DIN 6271. For additional information, please consult factory. Manufacture reserves the right to implement specifications or design changes without notice.

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