VARIANCE FEES

MGO \$50.00 COMM \$490.00 Priority - Double above

Notary public

PETITION FOR VARIANCE APPLICATION

City of Madison **Building Inspection** Division

215 Martin Luther King Jr. Blvd. Madison, WI 53703

Amount Pai	d	1	/	
	50	2/10	117	FMR

Amount Paid 50 5/10/17 FMR	<u> </u>	(608) 266-4568
Name of Owner	Project Description 5 story, 95 unit apartment build	Agent, architect, or engineering firm
Jacob Klein	with underground parking	Knothe & Bruce Architects, LLC
Company (if applies) JT Klein Company, Inc.		No. & Street 7601 University Ave.; Ste 201
No. & Street 906 Bear Claw Way	Tenant name (if any) 8TWENTY PARK	City, State, Zip Code Middleton, WI 53562
City, State, Zip Code Madison, WI 53717	Building Address 1903 Delaplaine Ct. (aka 820 Pa	Phone (608) 836-3690
Phone	Madison, WI	Name of Contact Person
(608) 203-5326 e-mail	IVIACISOTI, VVI	Greg Held
jacob@jtklein.com		e-mail gheld@knothebruce.com
1. The rule being petitioned rea	ads as follows: (Cite the specific rule nu	mber and language. Also, indicate the
nonconforming conditions fo	r your project.)	shall be ausplied by an an aremise
generator with an onsite fuel	andby Power Systems: (1)power s	shall be supplied by an on-premise
		e natural gas as the fuel supply for the
generator is not included as		- Hatarar gas as the raci supply for the
	nnot be entirely satisfied because:	
		antages over diesel, including cost, noise,
smell and physical size.	, , , , , , , , , , , , , , , , , , , ,	
3. The following alternatives ar	nd supporting information are proposed	as a means of providing an equivalent degree o
health, safety, and welfare a	s addressed by the rule:	
The generator and the rest	t of the building would be provide	d with a separate gas laterals. There
		gas service. These separate services
	as supply to be shut off while allo	
	es and gas shut off valves would	
conspicuously labeled as t	o their function. (see attached si	te plan and generator data sheets)
		1 ×
Note: Diago attach any pictures p	long or required position statements	
Note. Please attach any pictures, p	lans, or required position statements.	
VEDICIOATION DV OM/NE		IE NOTABITED AND ACCOURANTED
		IF NOTARIZED AND ACCOMPANIED
	ANY REQUIRED POSITION STA	
	ner of the building. Tenants, agents, co ney is submitted with the Petition for Var	ontractors, attorneys, etc. may not sign the riance Application.
Jacob Klein	, being duly sworn, I sta	te as petitioner that I have read the foregoing
Print name of owner petition, that I believe it to be true	e, and I have significant ownership right	s in the subject building or project.
Oime at the at		Outrouth of and and a second of the second o
Signature of owner		Subscribed and sworn to before me this

March 26, 2021 VARIABLE PER COMERCIAL CODES ARE REQUIRED TO BE NOTARIZED.

Wpn 1 20 , 2017

My commission expires:

Notary Public State of Wisconsin

City of Madison Fire Department Position Statement

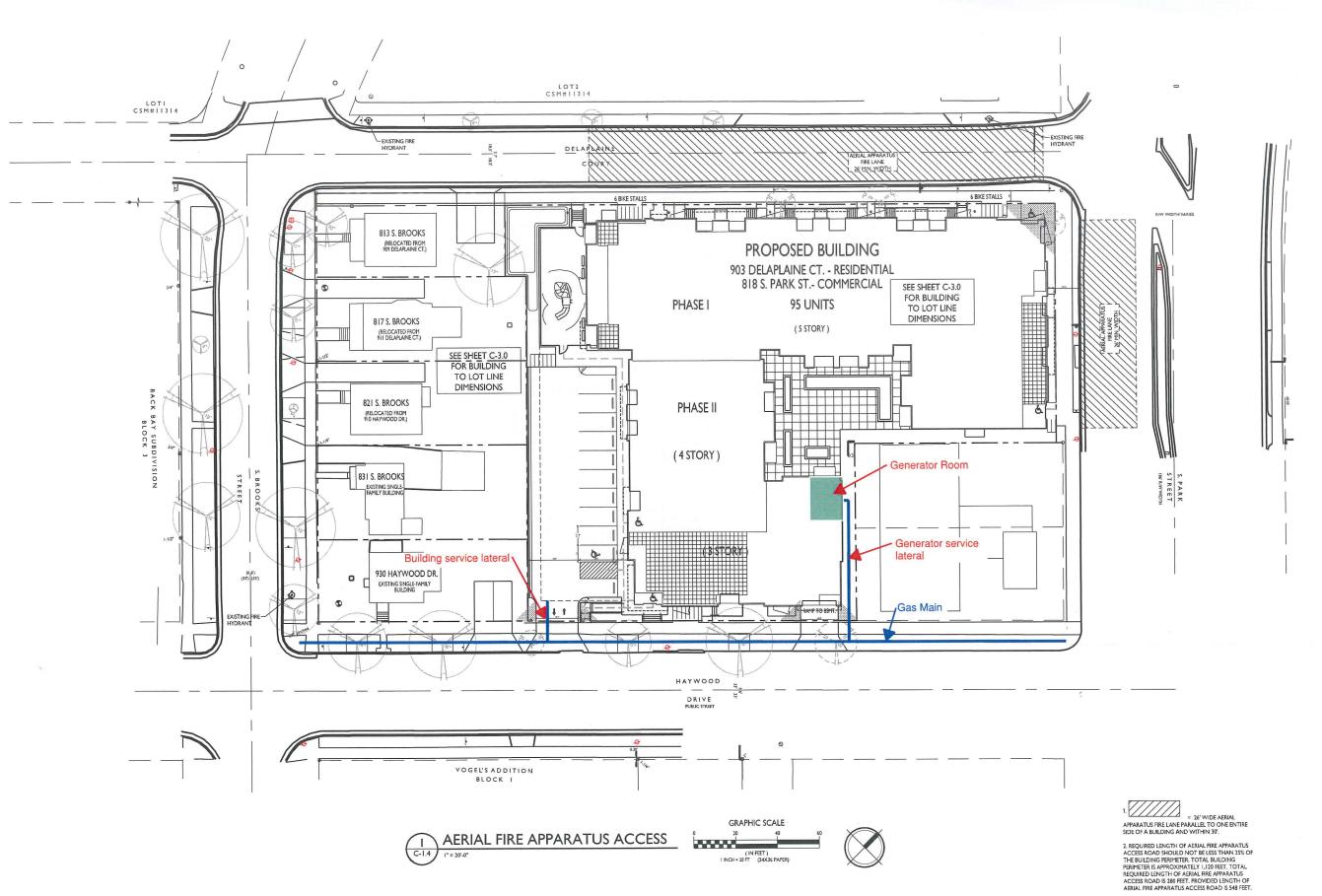
Owner: Jacob Klein JT Klein Company, Inc.	Project Name: 8Twenty Park Apartments	Contact: Greg Held Knothe & Bruce Architects
Address: 906 Bear Claw Way Madison, WI 53717	Building Location: 903 Delaplaine Ct Madison, WI	Address: 7601 University Ave Suite 201 Middleton, WI 53562
Owner Phone: 608-203-5326 Email: jacob@jtklein.com	Building Occupancy or Use: Group R-2 Residential Apartments	Phone: 608-836-3690 Email: gheld@knothebruce.com

Rule Being Petitioned: MGO 34.604 Emergency Standby Power fuel source

I have read the	application for variance and	recommend: (check	appropriate box)
□ Approval	X Conditional Approval	□ Denial	□ No Comment

- MGO 34.604 was intended to be applied to high-rise buildings and at the time the ordinance was created, only
 high-rise buildings were required to have an emergency power source.
- This building is not a high-rise building
- MFD supports the approval based on a dedicated supply line serving the emergency generator only.
- Permanent, all-weather signage shall be provided indicating that the supply line serves only the emergency generator.
- Gas piping serving the generator inside the building shall be labeled as an emergency supply line only and shall
 not be used to serve any other equipment. Labeling shall be every 10-ft or each piece of pipe whichever is
 greater.

Name of Fire Chief or Designee (type or print) Bill Sullivan, Fire Protection Engineer	
City of Madison Fire Department	Telephone Number 608-261-9658
Signature of Fire Chief of Designee	Date Signed May 5, 2017





ISSUED

ISSUED
Conditional Use/Re-zoning - October 7, 2015
UDC & Revised CU - November 11, 2015
Sice Plan Review Submittal - April 29, 2016
Progress Set - May Pth, 2016
Revised for Fire Dept. Hay 12, 2016
Issued - June 1st, 2016
Issued - June 1st, 2016
Issued for Sice Plan Supplement - June 23, 2016
Issued for Sice Plan Supplement - June 23, 2016
Issued for Construction - January 06, 2017

VARIANCE SUBMITTAL 4-21-2017

PROJECT TITLE 8TWENTY PARK

903 Delaplaine Ct. & 818 S. Park St. Madison, WI SHEET TITLE Fire Access Plan

SHEET NUMBER

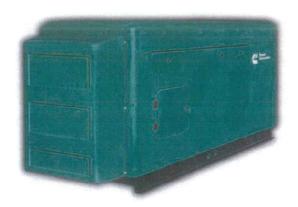
PROJECT NO.



Spark-ignited generator set

30-60 kW standby FPA emissions





Description

Cummins Power Generation generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary standby applications.

Features

Gas engine - Rugged 4-cycle Cummins QSJ2.4 spark-ignited engine delivers reliable power. The electronic air/fuel ratio control provides optimum engine performance and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 1.1 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping,

precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at up to 50 °C (122 °F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The genset enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The intelligent design has removable panels and service doors to provide easy access for service and maintenance.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor and dealer network.

Natural Gas Standby 60 Hz		Prop	Data sheets	
kW	kVA	kW	kVA	60 Hz
30	38	30	38	NAD-5699-EN
36	45	36	45	NAD-5700-EN
40	50	40	50	NAD-5701-EN
45	56	45	56	NAD-5702-EN
50	63	50	63	NAD-5703-EN
60	75	60	75	NAD-5704-EN
	\$tai 60 kW 30 36 40 45 50	Standby 60 Hz kW kVA 30 38 36 45 40 50 45 56 50 63	Standby Star 60 Hz 60 kW kVA kW 30 38 30 36 45 36 40 50 40 45 56 45 50 63 50	Standby 60 Hz Standby 60 Hz kW kVA kW kVA 30 38 30 38 36 45 36 45 40 50 40 50 45 56 45 56 50 63 50 63

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Generator set specif	ications					
Governor regulation class		ISO 8528 Part 1 Class G3				
Voltage regulation, no load to full load		± 1.0%				
Random voltage variation		± 1.0%				
Frequency regulation		Isochronous				
Random frequency variation		± 0.25% @ 60 Hz				
Radio frequency emissions compl	iance	Meets requirements of most indus	trial and commercial applications			
Engine specification	6					
	3	Notirelly aspirated or turbs oborge	ad (varios by generator set model)			
Design		Naturally aspirated or turbo charge 86.5 mm (3.4 in)	ed (varies by generator set model)			
Bore		100.0 mm (3.94 in)				
Stroke		1 /				
Displacement		2.4 liters (143.5 in³) Cast iron, in-line 4 cylinder				
Cylinder block		550 amps at ambient temperature	of 0 °E to 22 °E (10 °C to 0 °C)			
Battery capacity		55 amps	010 F to 32 F (-18 C to 0 C)			
Battery charging alternator						
Starting voltage		12 volt, negative ground				
Lube oil filter type(s)	la .	Spin-on with relief valve				
Standard cooling system		50 °C (122 °F) ambient cooling sys	stem			
Rated speed		3600 rpm				
Alternator specifical	tions					
Design		Brushless, 2 pole, drip proof, revol	lving field			
Stator		2/3 pitch				
Rotor		Direct coupled, flexible disc				
Insulation system		Class H per NEMA MG1-1.65				
Standard temperature rise		120 °C (248 °F) standby				
Exciter type		Torque match (shunt)				
Alternator cooling		Direct drive centrifugal blower				
AC waveform total harmonic disto	ortion	< 5% no load to full linear load, < 3% for any single harmonic				
Telephone influence factor (TIF)		< 50 per NEMA MG1-22.43				
Telephone harmonic factor (THF)		3%				
Available voltages	1 *					
1-phase	3-phase	,				
• 120/240	• 120/208	• 120/240 delta	• 277/480			
Generator set option	ns					
Fuel system	Control	Cooling system	Warranty			
☐ Single fuel - natural gas or	☐ AC output analog meters	☐ Shutdown – low coolant level	☐ Base warranty – 2 year, 400 hour,			
propane vapor, field selectable	(bargraph)	☐ Warning – low coolant level	standby			
☐ Dual fuel – natural gas and	☐ Stop switch – emergency	☐ Extension – coolant drain☐ Cold weather options:	☐ Standby, 3 year, 900 hour, parts☐ Standby, 5 yesr, 1500 hour, parts			
propane vapor auto changeover ☐ Low fuel gas pressure warning	 ☐ Auxiliary output relays (2) ☐ Auxiliary configurable inputs (8) 	Cold weather options. <4 °C (40 °F) – cold weather	☐ Standby, 3 year, 1300 hour, parts			
Engine	and relay outputs (8)	o <-17 °C (0 °F) – extreme cold	and labor			
☐ Engine air cleaner – normal duty	Electrical	weather	☐ Standby, 5 year, 1500 hour, parts and labor			
Shut down - low oil pressure	☐ Single circuit breaker☐ Dual circuit breakers	☐ Exhaust system☐ Exhaust connector NPT	☐ Standby, 3 year, 900 hour, parts,			
Extension – oil drain	80% rated circuit breakers	Generator set application	labor and travel			
Alternator 120 °C (248 °F) temperature rise	☐ 100% rated circuit breakers	☐ Base barrier – elevated generator	☐ Standby, 5 year, 1500 hour, parts, labor and travel			
alternator	Enclosure	set Battery rack, larger battery	parts, labor and traver			
☐ 105 °C (221 °F) temperature rise alternator	□ Aluminum enclosure Sound Level 1 or Level 2, with muffler	☐ Radiator outlet duct adapter				
☐ Shunt excitation system	installed, sandstone or green					
☐ Alternator heater, 120V	color					
Nata Cama antique may not be as	Open set	con, for availability				
Note: Some options may not be av		ory for availability.				
Generator set acces	ssories					
☐ Extreme cold weather kit		☐ Battery charger – stand-alone 12V				
☐ Battery rack, larger battery☐ Battery heater kit		 ☐ Circuit breakers ☐ Enclosure Sound Level 1 to Sound 	Level 2 upgrade kit			
☐ HMI211RS in-home display, included		☐ Enclosure paint touch up kit	, <u>.</u>			
☐ HMI211 remote display, including		☐ Base barrier – elevated generator s				
 ☐ HMI220 remote display ☐ Auxiliary output relays (2) 		 ☐ Mufflers – industrial, residential or o ☐ Alternator shunt excitation system 	Sincal			
☐ Auxiliary output relays (2) ☐ Auxiliary configurable signal inputs	s (8) and relay outputs (8)	☐ Alternator heater				
☐ Annunciator – RS485	OR NORMAN	☐ Maintenance and service kit				
☐ Remote monitoring device – Power	rCommand 500	☐ Engine lift kit				

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Control system PowerCommand 1.1





PowerCommand control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). Major features include:

- Battery monitoring and testing features and smart starting control system.
- Standard PCCNet interface to devices such as remote annunciator for NFPA 110 applications.
- Control boards potted for environmental protection.
- Control suitable for operation in ambient temperatures from -40 °C to +70 °C (-40 °F to +158 °F) and altitudes to 5000 meters (13,000 feet).
- Prototype tested; UL, CSA, and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics.

Operator/display panel

- Manual off switch
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols)
- LED lamps indicating generator set running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -40 °C to +70 °C
- Bargraph display (optional)

AC protection

- · Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- · Over excitation (loss of sensing) fault
- Field overload

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- · High, low and weak battery voltage warning
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- · Low fuel level warning or shutdown

Alternator data

- · Line-to-line and Line-to-neutral AC volts
- 3-phase AC current
- Frequency
- Total kVa

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Engine speed

Other data

- · Generator set model data
- · Start attempts, starts, running hours
- Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)

Digital governing (optional)

- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation

- Integrated digital electronic voltage regulator
- 2-phase line-to-line sensing
- Configurable torque matching

Control functions

- Time delay start and cooldown
- Cycle cranking
- PCCNet interface
- (2) Configurable inputs
- (2) Configurable outputs
- Remote emergency stop
 Automatic transfer switch (ATS) control
- · Generator set exercise, field adjustable

Options

- □ Auxiliary output relays (2)
- Remote annunciator with (3) configurable inputs and (4) configurable outputs
- ☐ PMG alternator excitation
- □ PowerCommand 500/550 for remote monitoring and alarm notification (accessory)
- □ Auxiliary, configurable signal inputs (8) and configurable relay outputs (8)
- □ Digital governing
- ☐ AC output analog meters (bargraph)
- Color-coded graphical display of:
 - 3-phase AC voltage
 - 3-phase current
 - Frequency
 - kVa
- ☐ Remote operator panel

Ratings definitions

Emergency standby power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-time running power (LTP):

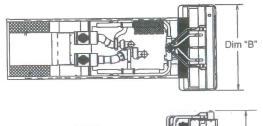
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

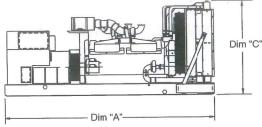
Prime power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base load (continuous) power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.





This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

	Dim "A"	Dim "B"	Dim "C"	Set Weight*dry	Set Weight*wet
Vlodel	mm (in.)	mm (in.)	mm (in.)	kg (lbs)	kg (lbs)
			Open Set		
C30 N6H	1669 (65.7)	864 (34)	1123 (44.2)	438 (966)	455 (1002)
C36 N6H	2225 (87.6)	864 (34)	1123 (44.2)	479 (1055)	495 (1091)
C40 N6H	2225 (87.6)	864 (34)	1123 (44.2)	499 (1101)	516 (1137)
C45 N6H	2225 (87.6)	864 (34)	1123 (44.2)	567 (1251)	584 (1287)
C50 N6H	2225 (87.6)	864 (34)	1123 (44.2)	567 (1251)	584 (1287)
C60 N6H	2225 (87.6)	864 (34)	1123 (44.2)	581 (1281)	597 (1317)
		Sound Atten	uated Enclosure Level	1	
C30 N6H	1829 (72)	864 (34)	1156 (45.5)	484 (1067)	500 (1103)
C36 N6H	2388 (94)	864 (34)	1156 (45.5)	529 (1167)	546 (1203)
C40 N6H	2388 (94)	864 (34)	1156 (45.5)	550 (1213)	567 (1249)
C45 N6H	2388 (94)	864 (34)	1156 (45.5)	618 (1363)	635 (1399)
C50 N6H	2388 (94)	864 (34)	1156 (45.5)	618 (1363)	635 (1399)
C60 N6H	2388 (94)	864 (34)	1156 (45.5)	632 (1393)	648 (1429)
		Sound Atten	uated Enclosure Level	2	
C30 N6H	2073 (81.6)	864 (34)	1156 (45.5)	489 (1078)	505 (1114)
C36 N6H	2626 (103.4)	864 (34)	1156 (45.5)	534 (1178)	551 (1214)
C40 N6H	2626 (103.4)	864 (34)	1156 (45.5)	555 (1224)	572 (1260)
C45 N6H	2626 (103.4)	864 (34)	1156 (45.5)	623 (1374)	640 (1410)
C50 N6H	2626 (103.4)	864 (34)	1156 (45.5)	623 (1374)	640 (1410)
C60 N6H	2626 (103.4)	864 (34)	1156 (45.5)	637 (1404)	653 (1440)

^{*} Weights based on 1-phase generator set. Weights may vary with a different configuration.



Codes or standards compliance may not be available with all model configurations - consult factory for availability.



The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins Power Generation products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.



This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.



The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies.



All low voltage models are CSA certified to product class 4215-01.



Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60.

International Building Code

The generator set is certified to International Building Code (IBC) 2012.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

North America 1400 73rd Avenue N.E. Minneapolis, MN 55432

Phone 763 574 5000 Fax 763 574 5298

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NAS-5706e-EN (8/15)



Generator set data sheet



Model:

C36 N6H

KW rating:

36.0 natural gas standby

36.0 propane standby

Frequency:

60 Hz

Fuel type:

Natural gas/propane

Emissions level:

EPA emissions

Exhaust emission data sheet:	EDS-1172
Exhaust emission compliance sheet:	EPA-1242
Sound performance data sheet:	MSP-1168
Cooling performance data sheet:	MCP-256
Prototype test summary data sheet:	PTS-317

	Natural gas			Propane	Propane				
	Standby					Standby			
Fuel consumption	kW (kVA	.)			kW (kVA	١)			
Ratings	36.0 (45.0)			36.0 (45	36.0 (45.0)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	
scfh	264.2	353.9	443.6	533.3	107.6	144.9	182.2	219.6	
m³/hr	7.48	10.02	12.56	15.10	3.05	4.10	5.16	6.22	

	Natural gas	Propane		
Engine	Standby rating	Standby rating		
Engine model	QSJ2.4			
Configuration	Cast iron, in-line 4 cylinder			
Aspiration	Naturally aspirated			
Gross engine power output, kWm (bhp)	65 (87.5)	65 (87.5)		
BMEP at rated load, kPa (psi)	903.94 (131.1)	925.09 (134.2)		
Bore, mm (in)	86.5 (3.4)			
Stroke, mm (in)	100.0 (3.94)			
Rated speed, rpm	3600			
Piston speed, m/s (ft/min)	12.0 (2354)			
Compression ratio	9.5:1			
Lube oil capacity, L (qt)	4 (4.54)			
Overspeed limit, rpm	4500 ± 9	4500 ± 9		

Fuel supply pressure

Minimum operating pressure, kPa (in H2O)	1.5 (6.0)
Maximum operating pressure, kPa (in H2O)	3.2 (13.0)

	Natural gas	Propane
Air	Standby rating	Standby rating
Combustion air, m³/min (scfm)	2.3 (81.9)	2.1 (75.0)
Maximum air cleaner restriction, kPa (in H₂O)	1.24 (5.0)	
Alternator cooling air, m³/min (scfm)	N/A	

Exhaust

Exhaust flow at rated load, m³/min (cfm)	9.9 (353.5)	8.9 (318.4)
Exhaust temperature, °C (°F)	746 (1374)	810 (1490)
Exhaust back pressure (maximum allowable at engine),		
kPa (in H₂O)	8.7 (35)	8.7 (35)
Exhaust back pressure (actual with factory fitted muffler,		
kPa (in H₂O)	2.72 (10.9)	

Standard set-mounted radiator cooling

Ambient design, °C (°F)	50 (122)	e e
Fan load, kW (HP)	2.1 (2.8)	
Coolant capacity (with radiator), L (US gal)	10.2 (2.7)	
Coolant system air flow, m³/min (scfm)	131.6 (4700)	
Total heat rejection, MJ/min (Btu/min)	3.1 (2809)	3.1 (2809)
Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)	

Weights ²	
Unit dry weight kgs (lbs)	529 (1168)
Unit wet weight kgs (lbs)	545 (1204)

Notes:

¹ For non-standard remote installations contact your local Cummins Power Generation representative. ² Weights represent a set with 1-phase with sound level 1 enclosure.

Alternator data

Standard alternators Maximum temperature rise above 40 °C ambient		Natural gas/ propane single phase table	ingle three phase			
		120 °C	120 °C	120 °C	120 °C	
Feature code		B949-2	B986-2	B946-2	B943-2	
Alternator data sheet number		ADS-575	ADS-572	ADS-572	ADS-572	
Voltage ranges		120/240	120/240	120/208	277/480	
Voltage feature code		R104-2	R106-2	R098-2	R002-2	
Surge kW		52.3/53.6	52.3/53.6	52.3/53.6	52.3/53.6	
Motor starting kVA (at 90% sustained voltage)	Shunt	68	86	86	86	×
	PMG	Not offered	Not offered	Not offered	Not offered	
Full load current amps at standby rating		150	108	125	54	

Optional alternators for improved motor starting capability		Natural gas/ propane single phase table	Natural gas/propane three phase table			
Maximum temperature rise above 40 °C ambient		105 °C	105 °C	105 °C	105 °C	
Feature code		BB96-2	BB94-2	BB93-2	BB95-2	
Alternator data sheet number		ADS-578	ADS-573	ADS-573	ADS-573	
Voltage ranges		120/240	120/240	120/208	277/480	
Voltage feature code		R104-2	R106-2	R098-2	R002-2	
Surge kW		52.3/53.6	52.7/54.0	52.7/54.0	52.7/54.0	
Motor starting kVA (at 90% sustained voltage)	Shunt	76	95	95	95	
<u> </u>	PMG	Not offered	Not offered	Not offered	Not offered	
Full load current amps at standby rating	-	150	108	125	54	

Derating factors

Natural gas/propane	
Standby	Engine power available up to 1005 m (3300 ft) at ambient temperatures up to 40 °C (104 °F). Above these elevations derate at 4% per 305m (1000ft) and 2% per 10 °C above 40 °C (104 °F).

Ratings definitions

Emergency standby power (ESP):	Limited-time running power (LTP):	Prime power (PRP):	Base load (continuous) power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Formulas for calculating full load currents:

Three phase output

Single phase output

kW x 1000

kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 Voltage

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

North America 1400 73rd Avenue N.E. Minneapolis, MN 55432 USA

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