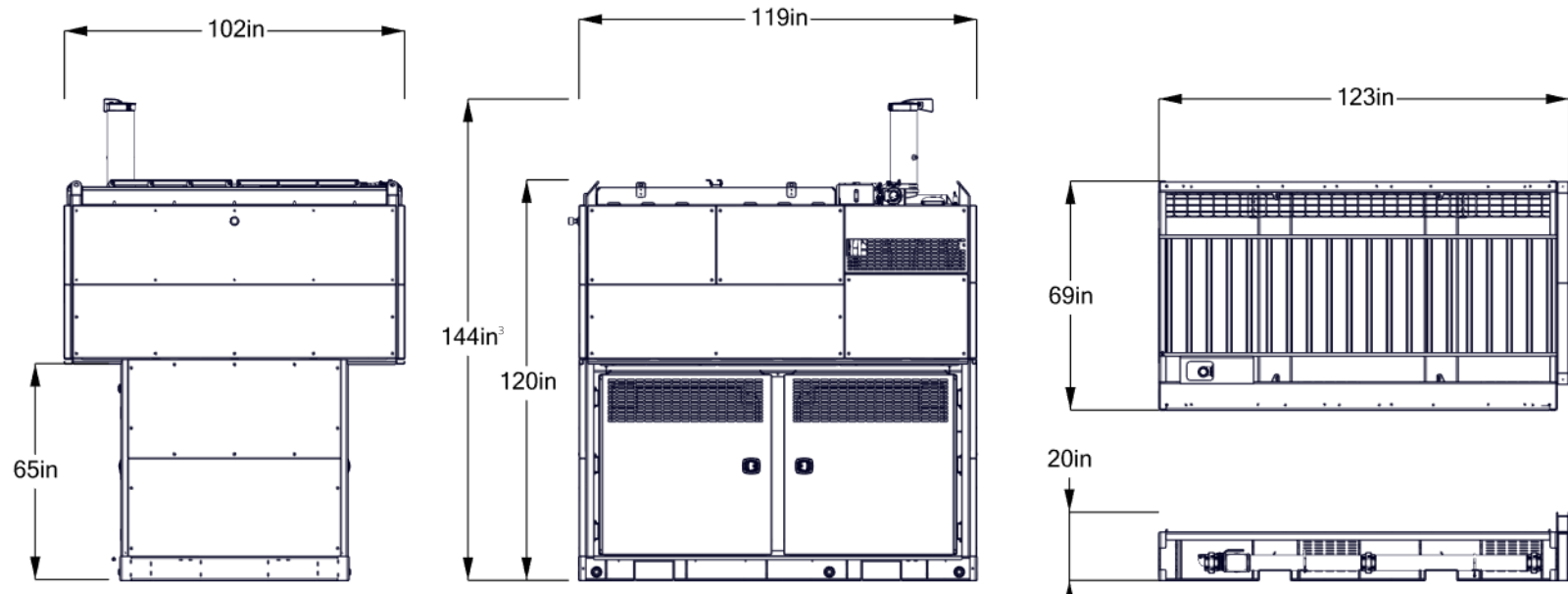




3. This value predates recent design changes. It is likely still close but should not be relied upon until re-validated.

General PowerCore Information

Model Number	A202002-00
Sound Level	73.9 dB* @ 7m
UL Certification	Certified to UL2200 3rd Edition
EPA Certified	40 CFR Part 60 Subpart JJJJ and Part 1048 ³

Engine Information

Engine Model	GX22 - A402PU02-00
No. of Cylinders	12
Bore x Stroke	5.0 in x 5.6 in (128 mm x 142 mm)
Displacement	1,338 in ³ (21.9 L)
Compression Ratio	10.2:1
Aspiration	Turbocharged, Intercooled
Fuel/Ignition System	Spark Ignited
Governor	Electronic - G2 Class* capable

Dry Weight

kg (lb)

17,700 lb (8,029 kg)³

Wet Weight

kg (lb)

18,000 lb (8,164 kg)³

Base Weight

kg (lb)

882 lb (400 kg)

Max Shipping Weight

kg (lb)

18,882 lb (8,565 kg)³

Generator

Model	WEG AG10-315MN70AP
Power Rating	803 kVA
Generator	60 Hz, 3-Phase, 0.8 pf, 2/3 Pitch, Class H Insulation
Voltage	480 V
Temperature rise, °C	125 / 40
Frame size	(IEC) 315
Excitation	PMG

3. This value predates recent design changes. It is likely still close but should not be relied upon until re-validated.

Motor starting capability is based on the assumption of 0.4 pf.

Performance ¹	Emergency Standby (ESP)		Prime Power (PRP)		Continuous Operating Power (COP)	
	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane
Frequency, Hz	60					
Genset Power Rating, kWe (kVA)	550 (688)	400 (500)	495 (619)	355 (444)	410 (513)	295 (369)
Rated Current, Amps	826	601	744	534	616	444

Fuel System / Fuel Consumption ²						
Minimum fuel supply pressure, kPa (PSI)	13.9 (2)					
Maximum fuel supply pressure, kPa (PSI)	68.9 (10)					
	ESP		PRP		COP	
	Natural Gas (kg/hr (ft ³ /hr))	Propane (kg/hr (gal/hr))	Natural Gas (kg/hr (ft ³ /hr))	Propane (kg/hr (gal/hr))	Natural Gas (kg/hr (ft ³ /hr))	Propane (kg/hr (gal/hr))
100% load with fan, kg/hr (ft ³ /hr)	134.45 (5972)	104 (54)	123.2 (5473)	94 (49)	105.86 (4702)	79 (41)
75% load with fan, kg/hr (ft ³ /hr)	106.37 (4725)	80 (42)	97.97 (4352)	73 (38)	85.03 (3777)	63 (33)
50% load with fan, kg/hr (ft ³ /hr)	78.45 (3485)	58 (30)	72.88 (3237)	54 (28)	64.29 (2856)	47 (25)

Assumes 1095.6 HHV BTU/SCF

Cooling System	
Radiator air flow, m ³ /min (cfm)	1202 (42,459)
Radiator air flow restriction (system), kPa (in. water)	1.06 (4.25)
Engine coolant capacity, L (gal)	57 (15.1)
Radiator coolant capacity, L (gal)	213 (56.4)
Total coolant capacity, L (gal)	270 (71.5)

Exhaust System	
Max. exhaust gas temperature, °C (°F)	593 (1100)
Max. exhaust gas flow rate, kg/hr (lb/hr)	2401 (5293)
Exhaust system back pressure max allowable, kPa (in. water)	15 (2.18)

Inlet Air	
Max. combustion air inlet flow rate, kg/hr	2264
Maximum allowable intake air restriction, kPa (in. water)	2.0 (8) - Clean Filter, 3.7 (15) Dirty Filter

Emissions Control

EPA Stationary Non-Emergency (g/bhp-hr)	NO _x : 1.0, CO: 2.0, VOC: 0.7
Ultra Low Emissions (g/bhp-hr)	NO _x : 0.359, CO: 0.359, VOC: 0.359

Lube System

Minimum Engine oil capacity, L (gal)	23 (6)
Maximum Engine oil capacity, L (gal)	76 (20)
Engine oil day tank capacity, L (gal)	53 (14)
Total oil capacity, L (gal)	129 (34)

Heat Rejection

	ESP	PRP	COP
Heat rejection to jacket water, kW (BTU/min)	TBD	TBD	TBD
Heat rejection to after cooler, kW (BTU/min)	TBD	TBD	TBD
Heat rejection to atmosphere from engine, kW (BTU/min)	TBD	TBD	TBD
Heat rejection to exhaust, kW (BTU/min)	TBD	TBD	TBD

APPLICABLE CODES AND STANDARDS:

Compliant to: CSA C22.2 No 100-04, cUL/UL2200

Applicable to: ISO 3046, ISO 8528

EMERGENCY STANDBY POWER (ESP):

ESP is the maximum power available for a generator set during a utility outage or under test conditions. Operation is permitted for up to 200 hours per year, with a permissible average load factor of 70% of ESP over any 24-hour period. ESP is not intended for use in parallel with the utility or for continuous operation.

PRIME POWER (PRP):

PRP is the maximum power a generator set can deliver with a variable load for an unlimited number of hours per year. The permissible average load over any 24-hour period is 70% of PRP. A 10% overload is permitted for up to 1 hour in every 12 hours of operation.

CONTINUOUS OPERATING POWER (COP):

COP is the maximum power a generator set can deliver consistently for an unlimited number of hours per year (8760). It is suitable for supplying 100% to a utility for unlimited hours. No overload capacity is permitted under COP.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions.

DEFINITIONS AND CONDITIONS

¹ Electrical Power Output & Fuel Consumption Tested at a Power Factor of 0.8. Operational characteristics consider maximum ambient conditions 40C (104F). Derate factors may apply under certain site conditions.

² a. Tested per ISO 8528-6 2023 at an elevation of 5067ft (1544m) and ambient temperature of 55F

² b. Fuel Specification: Gas properties for fuel consumption data: NG: Density = 0.795kg/m³, HHV = 1095.6 BTU/SCF (41 MJ/m³).

³ This value predates recent design changes. It is likely still close but should not be relied upon until re-validated.

* Governing Class capability as per ISO-8528-5. Consult your local Mesa sales rep for configuration and site specific transient performance classification.

** Wet Weight includes weight of coolant, oil, and full day tank.