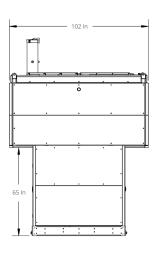
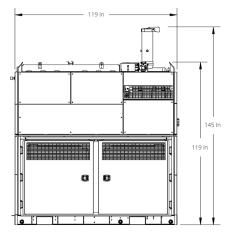


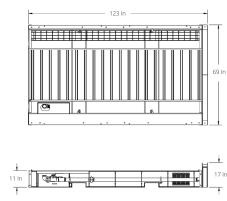
Mesa GV22 PowerCore











General PowerCore Information				
Model Number A201001-02				
Sound Level	71.6 dB at 7m			
UL Certification	Certification Certified to UL2200			
EPA Certified 40 CFR Part 60 Subpart JJJJ and Part 1048				

Dry Weight kg (lb)	Wet Weight kg (lb)	Base Weight kg (lb)	Max Shipping Weight kg (lb)
7,530 (16,600)	7,688 (16,949)**	400 (882)	8,111 (17,881)

Engine Information				
Engine Model A401EL01-02 GV22PU				
No. of Cylinders	o. of Cylinders			
Bore x Stroke	128 mm x 142 mm (5.0 in x 5.6 in)			
Displacement	21.9 Liter (1336 in³)			
Compression Ratio 10.2:1				
Aspiration	Turbocharged, Intercooled			
Fuel/Ignition System Electronic Regulator / Spark Ignition				
Governor Electronic - G2 Class* capable				

Generator				
Model WEG AG10-315MN50AI				
Power Rating	650 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			

Motor starting capability is based on the assumption of 0.4 pf. Temperature rise is based on the rating type and the respective site conditions.



Mesa GV22 PowerCore



Performance ¹	Emergency Standby (ESP) Limited-Time		Limited-Time Power (LTP)		Prime Power (PRP)	
	Natural Gas	Propane	Natural Gas	Propane	Natural Gas	Propane
Frequency, Hz	60					
Genset Power Rating, kWe (kVA)	450 (562)	350 (437)	425 (531)	315 (393)	400 (500)	315 (393)
Rated Current, Amps	677	526	639	473	601	473

Fuel System / Fuel Consumption ²						
Minimum fuel supply pressure, kPa (PSI)	re, kPa (PSI) 13.9 (2)					
Maximum fuel supply pressure, kPa (PSI)	68.9 (10)					
	ESP LTP PRP			RP		
100% load with fan, kg/hr (ft³/hr)	104 (4,964)	87 (1,658)	99 (4,723)	80 (1,515)	94 (4,483)	80 (1,515)
75% load with fan, kg/hr (ft³/hr)	81 (3,891)	69 (1,306)	78 (3,716)	63 (1,204)	74 (3,542)	63 (1,204)
50% load with fan, kg/hr (ft³/hr)	60 (2,854)	51 (974)	57 (2,741)	48 (910)	55 (2,628)	48 (910)

Cooling System				
Radiator air flow, m³/min (cfm)	903 (31,900)			
Radiator air flow restriction (system), kPa (in. water)	0.90 (3.6)			
Engine coolant capacity, L (gal)	53 (14)			
Radiator coolant capacity, L (gal)	136 (36)			
Total coolant capacity, L (gal)	189 (50)			

Inlet Air	ESP	LTP	PRP
Combustion air inlet flow rate, kg/hr	1979	1884	1790
Maximum allowable intake air restriction, kPa (in. water)	1.2 (5) - Clean Filter, 3.7 (15) - Dirty Filter		

Exhaust System					
Max. exhaust gas temperature, °C (°F)	673 (1250)				
Max. exhaust gas flow rate, kg/hr (lb/hr)	2,084 (4595)				
Exhaust system back pressure max allowable, kPa (in. water)	15 (60)				



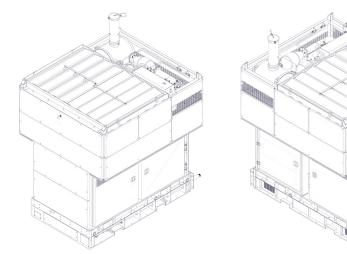
Mesa GV22 PowerCore



Emissions Control				
EPA Stationary Non-Emergency (g/bhp-hr)	NO _x : 1.0, CO: 2.0, VOC: 0.7			
East Texas Ultra Low NO _x Capable	< 0.047 g/bhp-hr			

Lube System				
Minimum Engine oil capacity, L (gal)	33 (8.7)			
Maximum Engine oil capacity, L (gal)	40 (11)			
Engine oil day tank capacity, L (gal)	53 (14)			
Total oil capacity, L (gal)	93 (24.7)			

Heat Rejection	ESP	LTP	PRP
Heat rejection to jacket water, kW (BTU/min)	469 (26,672)	464.6 (26,421)	460.2 (26,171)
Heat rejection to after cooler, kW (BTU/min)	73.8 (4,197)	66.4 (3,776)	58.9 (3,350)
Heat rejection to atmosphere from engine, kW (BTU/min)	38 (2,161)	36 (2,047)	33 (1,877)
Heat rejection to exhaust, kW (BTU/min)	340 (19,335)	305 (17,345)	270 (15,355)



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.

LIMITED TIME POWER (LTP):

LTP is the maximum power a generator set can deliver for up to 500 hours per year under defined operating conditions. It is suitable for constant loads where the maximum output is required for a limited duration. No overload capacity is permitted under LTP.

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.

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 1.0.Operational characteristics consider maximum ambient conditions 40 °C (104 °F). Derate factors may apply under typical site conditions.
- 2 b. Tested per ISO 8528-6 2023 at an elevation of 5067 ft (1544 m) and ambient temperature of 10°C (50°F).
- 2 c. FUEL SPECIFICATION: Gas properties for fuel consumption data: NG: Density = 0.737 kg/m3, HHV = 1041 BTU/SCF (39 MJ/m3).
- * 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.