



Power Range	kW	kVA	<b>MODELS:</b>	
Standby Natural gas	96 - 125	96 - 156.3		<b>HGGO - 125</b>
Standby Propane	108.4 - 113	108.4 -141.3		<b>HGGE - 125</b>

**STANDARD EQUIPMENT**

Open Set Model: HGGO-125	Accessories Available for HGGO/E - 125
<ul style="list-style-type: none"> <li>■ Himoinsa CMD2.0 digital auto-start control panel (Page 4)</li> <li>■ Dry-type replaceable element air-cleaner</li> <li>■ Battery, battery rack, and cables</li> <li>■ Lubrication oil replaceable element filters</li> <li>■ Stamford AVR brushless 12-wire reconnectable alternator</li> <li>■ Vibration Isolators between base and set assembly</li> <li>■ Main Line Circuit Breaker for overload protection</li> <li>■ Belt driven charging alternator</li> <li>■ Guards for shielding all rotating parts</li> <li>■ Fuel cut-off solenoid and protection switches</li> <li>■ Radiator with pusher fan</li> <li>■ Operation and installation manuals</li> </ul>	<p style="text-align: center;"><u>Mechanical Accessories Offered</u></p> <ul style="list-style-type: none"> <li>■ Weather protective canopy (for Open Set)</li> <li>■ Critical grade exhaust mufflers</li> <li>■ Flexible exhaust connection for open sets</li> <li>■ Oil pressure and engine temperature gauges</li> <li>■ Extended warranty coverage above the standard one year</li> </ul> <p style="text-align: center;"><u>Generator End Accessories Offered</u></p> <ul style="list-style-type: none"> <li>■ PMG excitation for enhanced motor-starting</li> <li>■ Anti-condensation heaters</li> </ul> <p style="text-align: center;"><u>Electrical and Control Accessories Offered</u></p> <ul style="list-style-type: none"> <li>■ Automatic battery chargers 5 and 10 amp</li> <li>■ NFPA 110 controls and remote annunciator</li> <li>■ Analog instrumentation in lieu of digital</li> <li>■ Transfer switch and paralleling control panels</li> <li>■ Water Jacket Heater</li> <li>■ Remote control from PC via hard and/or wireless link</li> <li>■ GPS for mobile sets</li> <li>■ Digital Timer (Auto-start sets only)</li> </ul>
Sound Attenuated Set Model: HGGE-125	
<ul style="list-style-type: none"> <li>■ Fully sound attenuated enclosure (equipped as open set)</li> <li>■ Powder Painted with finish that exceeds 1000-hr salt test</li> <li>■ Rock wool insulation behind protective barrier</li> <li>■ Curved edges and minimum outside fasteners</li> <li>■ Single lifting point</li> </ul>	

**GENERATOR RATINGS**

Alternator	Voltage	Ph	Hz	NATURAL GAS		PROPANE	
				Stand by Rating, 125°C		Stand by Rating, 125°C	
				kW/kVA	Amps	kW/kVA	Amps
UCI 274E	120 / 208	3	60	125 / 156.3	434	112.6 / 140.8	391
	127 / 220	3	60	125 / 156.3	411	112.8 / 141	370
	120 / 240	3	60	125 / 156.3	376	112.6 / 140.8	339
	139 / 240	3	60	125 / 156.3	376	113 / 141.3	340
	277 / 480	3	60	125 / 156.3	188	113 / 141.3	170
	347 / 600	3	60	125 / 156.3	151	113 / 141.3	136
	120 / 240	1	60	96 / 96	400	108.4 / 108.4	452

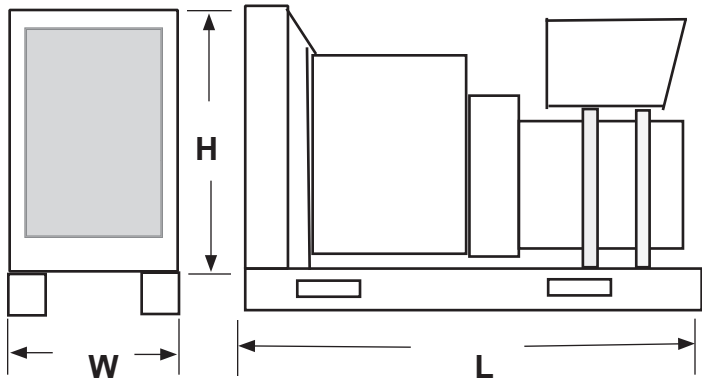
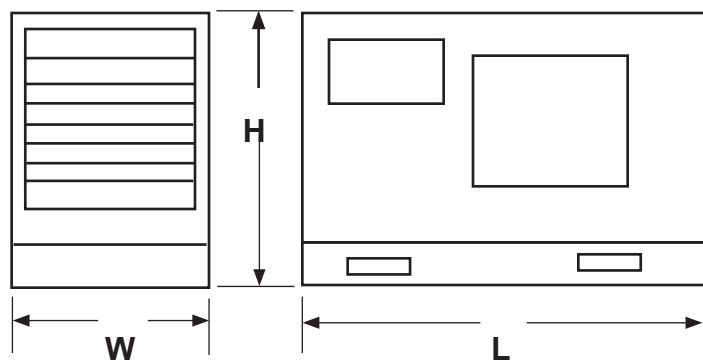
## Application Data

Alternator Specifications		Engine Mechanical Specifications	
Manufacturer	Newage Stamford	Manufacturer	General Motors Powertrain
Type	4-pole, rotating field	Engine model	VORTEC 8100T
Exciter type	Brushless, self excited. (PMG option)	Engine type	4-cycle, Turbo Charged
Leads: quantity, type	12, reconnectable	Cylinder arrangement	V - 8
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification for mobile use:	Not available
Insulation:		Displacement, L (cu. in.)	8.1 (496)
Material.....	Class H	Bore and stroke, mm (in.)	108.0 x 111.0 (4.25 x 4.38)
Temperature rise.....	125° C , standby	Compression ratio	9.1 : 1
Bearing: quantity, type	Single bearing sealed	Piston speed, m/min. (ft./min.)	399.6 (1,311)
Coupling	Flexible disc	Main bearings: quantity, type	5, replaceable insert
Amortisseur Windings	Full	Rated rpm	1,800
Voltage regulation, no-load to full load	± 1.5% (self-excited)	Max. power at rated rpm, kWm (BHP).	LPG = 134.3 (180) NG = 151.4 (203)
Unbalanced load capability	100% of rated standby current	BMEP, gross, psi ( Bar )	LPG = 159.6 (11.0) NG = 179.9 (12.41)
Load acceptance	Per ISO - 8528	Overall thermal efficiency	LPG = 26.8% NG = 27.8%
Peak motor starting kVA:	(30% dip)	Exhaust Gas Flow, m <sup>3</sup> /min (cfm)	30.7 (1,084)
480 V	self-excited series 4 - 450 kVA	Exhaust gas temperature °C (°F)	916 (1,680)
480 V	PMG series. 3 - 590 kVA		
Engine Electrical Specifications		Frequency regulation, no-load to full load	Isochronous
Engine Electrical System (12 Volt) 60 Hz		Governor: Type:	ITB
Battery charging alternator:		Make:	E-Controls
Ground (negative/positive).	Negative	Standard:	ISO 8528
Volts (DC).....	12V	Frequency regulation, steady state	± 0.35%
Ampere rating.....	70A	Frequency	Fixed
Starter motor rated voltage (DC)	12V	Air cleaner type	Dry
Starter motor rated kW:	TBA Kw		
Battery CCA rating:	TBA A		
Battery & qty, AH rating:	TBA AH		
Battery Voltage (DC)	12V		
Remote Radiator System		Fuel Consumption 60 Hz	
Exhaust manifold type		NG ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	Standby Rating
Connection sizes:		100%	1,651 (46.8)
Water inlet ID hose, mm (in)		75%	1,372 (38.9)
Water outlet ID hose, mm (in)		50%	984 (27.9)
Charge air cooling (CAC)	Not Available	25%	650 (18.4)
Water inlet ID hose, mm (in)		LPG ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	Standby Rating
Water outlet ID hose, mm (in)		100%	582 (16.5)
Static head allowable above engine, ft.H <sub>2</sub> O (kPa)		75%	469 (13.3)
Maximum CAC restriction H <sub>2</sub> O in.		50%	354 (10.0)
Contact the HIMOINSA distributor for special cooling options		25%	226 (6.4)

## Application Data

Cooling		Lubrication	
<b>Radiator Systems</b>	<b>60 Hz</b>	<b>Lubricating System</b>	<b>60 Hz</b>
Ambient temperature, °C (°F)	40 (104)	Type	Full pressure
Engine jacket water capacity L (gal)	13.7 (3.6)	Oil pan capacity, L, (qt.)	7.6 (8.0)
Radiator system capacity, including engine, L (gal.)	37.4 (9.9)	Recommended lube oil	SAE 10W30 Type SJ
Engine jacket water flow, L/min (g/min)	139.7 (36.9)	Oil pan capacity with filter, L (qt.)	8.5 (9.0)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	96.7 (5,500)	Oil filter: quantity, type	1, cartridge
Water pump type	Centrifugal	Oil cooler	Not available
Fan, kWm (HP)	10.3 (13.8)	Maximum oil temperature, °C (°F)	132 (270)
Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. H <sub>2</sub> O)	62.2 (0.25)	<b>Ventilation and Air-Flow Requirements</b>	
dBA LEVELS SOUND ATTENUATED ENCLOSED	Within (under) 70dBA @ 21 feet	<b>Air Requirements</b>	<b>60 Hz</b>
		Radiator-cooled cooling air, m <sup>3</sup> /min. (scfm)	176.5 (6,234)
		Air density kg/m <sup>3</sup> (ibm/ft <sup>3</sup> )	1.20 (0.075)
		Heat rejected to exhaust, kW (btu/min)	118 (6,712)
		Heat radiated to surrounding air Engine: kW (Btu/min)	46.3 (2,633)
		Combustion air, m <sup>3</sup> /min. (cfm)	10.0 (353)

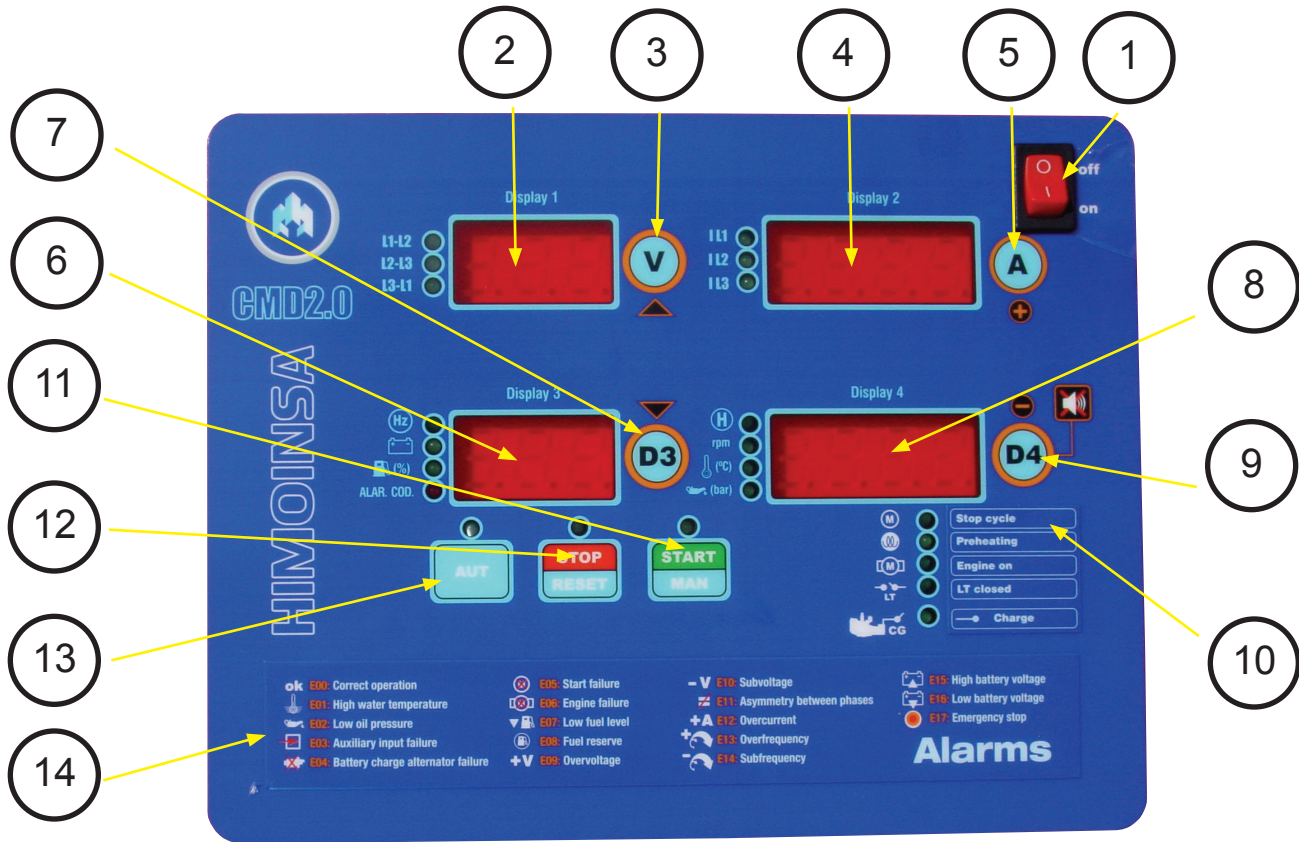
## Dimensions and Weights

Open Set Model: HGGO-125		Sound Attenuated Set Model: HGGE-125	
Overall size, L x W x H, mm (ins.)	2,260 x 927 x 1552 (89.0 x 36.5 x 61.1)	Overall size, L x W x H, mm (ins.)	2,980 x 1,200 x 1,556 (117.3 x 47.2 x 61.3)
Weight, radiator-mounted model, wet, kg (lb.):	1,009 ( 2,225)	Weight, radiator-mounted model, wet, kg (lb.):	1,989 (4,386)
			

NOTE: The drawings above are only representative of the overall dimensions. For full detailed installation drawings please consult your local distributor or contact Himoina @ [www.himoinausa.com](http://www.himoinausa.com)

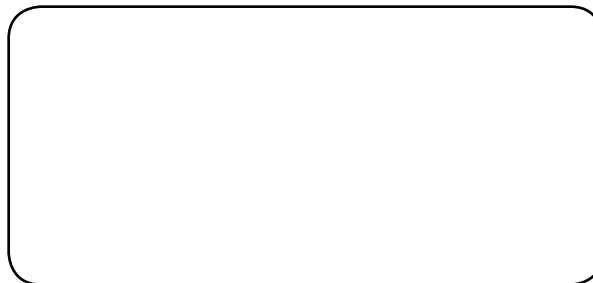
RATINGS: Power factor three-phase is 0.8 and single-phase unity. Standby Ratings: Standby ratings assume installation normally served by reliable utility power. The standby rating is available for varying loads for the length of the power outage. No overload is available with the standby rating. Ratings are in accordance with ISO-3046/1 and DIN 6271. Prime Power Ratings: Prime power ratings assume no or unreliable utility power. For varying loads the generator set has unlimited operating hours. A 10% overload capacity is available for any 1 hour in a 12 hour continuous running period. Ratings are in accordance with ISO-3046/1 and DIN 6271. Consult Himoina for limited running time and base load ratings. Himoina reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. DERATION GUIDELINES: Altitude: Derate 1.3% per 100 m (328 ft) elevation above 1000 m (3280 ft). Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).

# HIMOINSA CMD2.0 Auto Digital Control Panel



- |  |  |                                  |                  |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
|--|--|----------------------------------|------------------|--|-----|-------------------|-----|--------------|-----|------------------|-----|---------------|-----|------------------|-----|------------------|-----|-------------------------|-----|--------------|-----|-------------------------|-----|----------------|-----|---------------|-----|-----------------|-----|----------------|-----|-----------------|-----|----------------|-----|----------------|-----|--------------|-----|----------------|
| <ol style="list-style-type: none"> <li>1. Switch-on button</li> <li>2. Display 1. (visual display of phase voltage )</li> <li>3. Push-button V. (to select voltage)</li> <li>4. Display 2. (visual display of ampage)</li> <li>5. Push-button A. (to select amps)</li> <li>6. Display 3. (Visual display of frequency, battery level, fuel level or alarm code)</li> <li>7. Push-button D3. (Selects the frequency, battery level, fuel level or alarm code)</li> <li>8. Display 4. (Visual display of working hours, speed, water and oil temperature)</li> <li>9. Push-button D4. (to select hour run, speed, water-level and temperature and oil pressure)</li> </ol> | <ol style="list-style-type: none"> <li>10.             <ol style="list-style-type: none"> <li>1. Stopping cycle indicator</li> <li>2. Pre-heating indicator</li> <li>3. Engine on indicator</li> <li>4. LT closed indicator</li> </ol> </li> <li>11. Push-button mode (start/manual)</li> <li>12. Push-button mode (stop/reset)</li> <li>13. Push-button mode (automatic operation)</li> <li>14.             <table border="0" style="margin-left: 20px;"> <tr> <td colspan="3" style="text-align: center;">Alarm codes showed in display 3.</td> </tr> <tr> <td>E00</td> <td>Correct operation</td> <td>E09</td> <td>Over voltage</td> </tr> <tr> <td>E01</td> <td>High water temp.</td> <td>E10</td> <td>Under voltage</td> </tr> <tr> <td>E02</td> <td>Low oil pressure</td> <td>E11</td> <td>Asymmetry phases</td> </tr> <tr> <td>E03</td> <td>Auxiliary input failure</td> <td>E12</td> <td>Over current</td> </tr> <tr> <td>E04</td> <td>Bat. Alternator failure</td> <td>E13</td> <td>Over frequency</td> </tr> <tr> <td>E05</td> <td>Start failure</td> <td>E14</td> <td>Under frequency</td> </tr> <tr> <td>E06</td> <td>Engine failure</td> <td>E15</td> <td>High bat. volts</td> </tr> <tr> <td>E07</td> <td>Low fuel level</td> <td>E16</td> <td>Low bat. volts</td> </tr> <tr> <td>E08</td> <td>Fuel reserve</td> <td>E17</td> <td>Emergency stop</td> </tr> </table> </li> </ol> | Alarm codes showed in display 3. |                  |  | E00 | Correct operation | E09 | Over voltage | E01 | High water temp. | E10 | Under voltage | E02 | Low oil pressure | E11 | Asymmetry phases | E03 | Auxiliary input failure | E12 | Over current | E04 | Bat. Alternator failure | E13 | Over frequency | E05 | Start failure | E14 | Under frequency | E06 | Engine failure | E15 | High bat. volts | E07 | Low fuel level | E16 | Low bat. volts | E08 | Fuel reserve | E17 | Emergency stop |
| Alarm codes showed in display 3.   |  |                                  |                  |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E00  | Correct operation  | E09                              | Over voltage     |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E01  | High water temp.   | E10                              | Under voltage    |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E02  | Low oil pressure   | E11                              | Asymmetry phases |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E03  | Auxiliary input failure  | E12                              | Over current     |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E04  | Bat. Alternator failure  | E13                              | Over frequency   |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E05  | Start failure  | E14                              | Under frequency  |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E06  | Engine failure   | E15                              | High bat. volts  |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E07  | Low fuel level   | E16                              | Low bat. volts   |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |
| E08  | Fuel reserve   | E17                              | Emergency stop   |  |     |                   |     |              |     |                  |     |               |     |                  |     |                  |     |                         |     |              |     |                         |     |                |     |               |     |                 |     |                |     |                 |     |                |     |                |     |              |     |                |

## Distributor:



MEMBER

