



HP SERIES

Power Range	kW	kVA
Standby	67.5 - 101.5	67.5 - 126.8
Prime	67.5 - 91	67.5 - 113.7

MODELS:

HP - 100
HP - 100

STANDARD EQUIPMENT

Open Set Model: HP-100	Accessories Available for HP-100
Skid with integral day fuel tank (non-UL)	<u>Mechanical Accessories Offered</u>
Deep Sea 5310 digital auto-start control panel	Weather protective canopy (for Open Set)
Dry-type replaceable element air-cleaner	Road towing trailers to DOT standards
Industrial muffler	Critical grade exhaust mufflers
Battery, battery rack, and cables	UL double wall fuel tanks to customer specification
Fuel and lubrication oil replaceable element filters	Oil field type skid
Stamford AVR brushless 12-wire reconnectable alternator	Flexible exhaust connection for open sets
Oil drain hand pump	Oil pressure and engine temperature gauges
Vibration Isolators between base and set assembly	Extended warranty coverage above the standard one year
Main Line Circuit Breaker for overload protection	<u>Generator End Accessories Offered</u>
Belt driven charging alternator	PMG excitation for enhanced motor-starting
Guards for shielding all rotating parts	Anti-condensation heaters in alternator
Fuel cut-off solenoid and protection switches	<u>Electrical and Control Accessories Offered</u>
Radiator with pusher fan	Automatic battery chargers 5 and 10 amp
Operation and installation manuals	NFPA 110 controls and remote annunciator
Sound Attenuated Set Model: HP-100	Analog instrumentation in lieu of digital
Fully sound attenuated enclosure (equipped as open set)	Transfer switch and paralleling control panels
Powder Painted with finish that exceeds 1000-hr salt test	Water Jacket Heater
Rock wool insulation behind protective barrier	Remote control from PC via hard and/or wireless link
Curved edges and minimum outside fasteners	GPS for mobile sets
Single lifting point	Digital Timer (Auto-start sets only)

GENERATOR RATINGS

Alternator	Voltage	Ph	Hz	Standby Rating		Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
	120 / 208	3	60	96 / 120	333	90 / 112.5	312
	127 / 220	3	60	101 / 126.2	331	90.8 / 113.5	298
	120 / 240	3	60	96 / 120	288	90 / 112.5	270
UCI 274C	139 / 240	3	60	101.5 / 126.8	305	91 / 113.7	273
	277 / 480	3	60	101.5 / 126.8	152	91 / 113.7	137
	347 / 600	3	60	101.5 / 126.8	122	91 / 113.7	109
	120 / 240	1	60	67.5	281	67.5	281

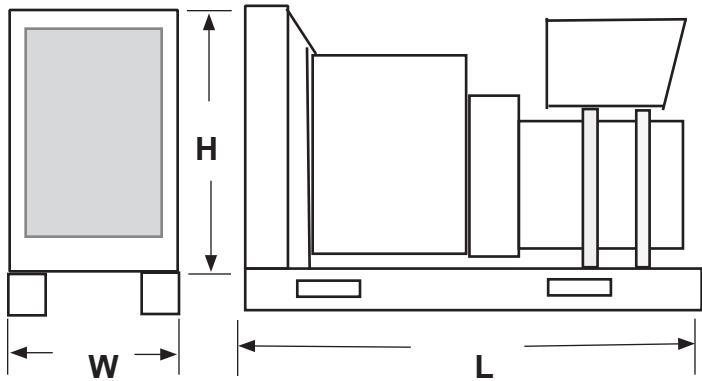
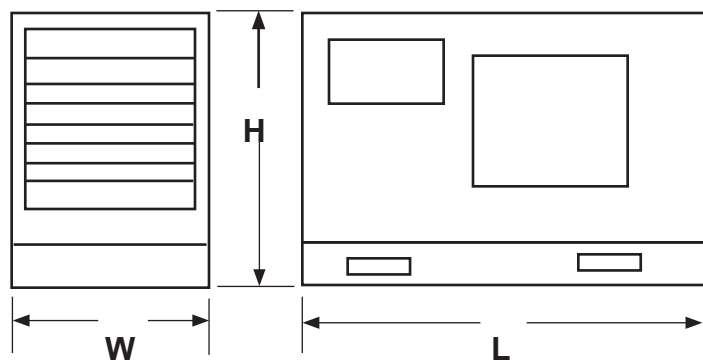
Application Data

Alternator Specifications		Engine Mechanical Specifications	
Manufacturer	Newage Stamford	Manufacturer	Perkins
Type	4-pole, rotating field	Engine model	1104D E44TAG2
Exciter type	Brushless, self excited. (PMG option)	Engine type	4-cycle, Turbocharged After-cooled
Leads: quantity, type	12, reconnectable	Cylinder arrangement	4 in line
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification :	TIER 3
Insulation:		Displacement, L (cu. in.)	4.4 (269)
Material.....	Class H	Bore and stroke, mm (in.)	105 x 127 (4.13 x 5.0)
Temperature rise.....	150° C , standby	Compression ratio	18.2 : 1
Bearing: quantity, type	Single bearing sealed	Piston speed, m/min. (ft./min.)	457 (1,500)
Coupling	Flexible disc	Main bearings: quantity, type	5, replaceable insert
Amortisseur Windings	Full	Rated rpm	1,800
Voltage regulation, no-load to full load	± 1.0% (with PMG) ± 1.5% (with Self Excited)	Max. power at rated rpm, kWm (BHP)	112 (150)
Unbalanced load capability	100% of rated standby current	BMEP, gross, psi (Bar)	246.2 (17.0)
Load acceptance	Per ISO - 8528	Overall thermal efficiency	38.7%
Peak motor starting kVA:	(30% dip)	Exhaust Gas Flow, m ³ /min (cfm)	19.6 (692)
480 V	self-excited series 4 - 345 kVA	Exhaust gas temperature °C (°F)	566 (1052)
480 V	PMG series. 3 - 425 kVA		
Engine Electrical Specifications		Frequency regulation, no-load to full load	0.25%
Engine Electrical System (12 Volt) 60 Hz		Governor: Type:	Electronic Isochronous
Battery charging alternator:		Make:	Perkins
Ground (negative/positive).	Negative	Standard:	ISO 3046-4 class A1
Volts (DC).....	12V	Frequency regulation, steady state	± 0.5%
Ampere rating.....	65A	Frequency	Fixed
Starter motor rated voltage (DC)	12V	Air cleaner type	Dry
Starter motor rated kW:	3.0 Kw		
Battery CCA rating:	810A		
Battery & qty, AH rating:	1 x 90AH		
Battery Voltage (DC)	12V		
Remote Radiator System		Fuel Consumption 60 Hz	
Exhaust manifold type		Diesel gal/hr (L/hr)	Standby Rating
Connection sizes:		100%	7.9 (29.86)
Water inlet ID hose, mm (in)		75%	5.9 (22.30)
Water outlet ID hose, mm (in)		50%	4.1 (15.50)
Charge air cooling (CAC)	Not Available	25%	2.4 (9.07)
Water inlet ID hose, mm (in)		Diesel gal/hr (L/hr)	Prime Power Rating
Water outlet ID hose, mm (in)		100%	7.1 (26.83)
Static head allowable above engine, ft.H ² O (kPa)		75%	5.3 (20.00)
Maximum CAC restriction H ² O in.		50%	3.7 (13.98)
Contact us for special cooling options		25%	2.1 (7.93)

Application Data

Cooling		Lubrication	
Radiator Systems	60 Hz	Lubricating System	60 Hz
Ambient temperature, °C (°F)	46 (115)	Type	Full pressure
Engine jacket water capacity L (gal)	7.0 (1.8)	Oil pan capacity, L, (qt.)	5.5 (5.8)
Radiator system capacity, including engine, L (gal.)	12.6 (3.3)	Recommended lube oil	API CH4
Engine jacket water flow, L/min (g/min)	170 (44.9)	Oil pan capacity with filter, L (qt.)	8.0 (8.5)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	60.7 (3,452)	Oil filter: quantity, type	1, cartridge
Heat rejected to charge cooler at rated kW, dry exhaust, kW (Btu/min.)	13.1 (745)	Oil cooler	Oil to water
Water pump type	Centrifugal	Normal oil temperature, °C(°F)	110 (230)
Fan, kWm (HP)	6.0 (8.0)	Ventilation and Air-Flow Requirements	
Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. H ² O)	62.2 (0.25)	Air Requirements	60 Hz
dBA LEVELS SOUND ATTENUATED ENCLOSED	Within (under) 70dBA @ 21 feet	Radiator-cooled cooling air, m ³ /min. (scfm)	268.5 (9,429)
		Air density kg/m ³ (ibm/ft ³)	1.20 (0,075)
		Heat rejected to exhaust, kW (btu/min)	94.5 (5,374)
		Heat radiated to surrounding air Engine: kW (Btu)	8.9 (508)
		Combustion air, m ³ /min. (cfm)	8.9 (313)

Dimensions and Weights

Open Set Model: GOHPW-100		Sound Attenuated Set Model: GEHPW-100	
Overall size, L x W x H, mm (ins.)	1,820 x 630 x 1,390 (71.65 x 24.8 x 54.72)	Overall size, L x W x H, mm (ins.)	2,750 x 1,100 x 1,550 (108.26 x 43.3 x 61)
Weight, radiator-mounted model, wet, kg (lb.):	1,064 (2,340)	Weight, radiator-mounted model, wet, kg (lb.):	1,760 (3,872)
Fuel Tank Capacity, L (US gal)	145 (38.3)	Fuel Tank Capacity, L (US gal)	176 (46.5)
			

NOTE: The drawings above are only representative of the overall dimensions. For full detailed installation drawings please consult your distributor.

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 Himoinsa for limited running time and base load ratings. Himoinsa 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).