

HPW SERIES

Power Range kW kVA

Standby 460.6 - 461.6 575.8 - 577

Prime 409.4 - 410.3 511.8 - 512.9

STANDARD EQUIPMENT				
Open Type Set	Accessories Available for HPW-465 T6			
Skid with integral day fuel tank (non-UL)	Mechanical Accessories Offered			
■ HIPOWER digital auto-start control panel (Page 4)	■ Road towing trailers to DOT standards			
■ Dry-type replaceable element air-cleaner	■ Critical grade exhaust mufflers			
■ Industrial muffler	■ UL double wall fuel tanks to customer specification			
■ Battery, battery rack, and cables	■ Oil field type skid			
■ Fuel and lubrication oil replaceable element filters	■ Flexible exhaust connection for open sets			
■ Stamford AVR brushless 12-wire reconnectable alternator	Oil pressure and engine temperature gauges			
Oil drain hand pump	■ Extended warranty coverage above the standard one year			
■ Vibration Isolators between base and set assembly				
■ Main Line Circuit Breaker for overload protection	Generator End Accessories Offered			
■ 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	Electrical and Control Accessories Offered			
Radiator with pusher fan	■ Automatic battery chargers 5 and 10 amp			
 Operation and installation manuals 	■ NFPA 110 controls and remote annunciator			
Sound Attenuated Enclosure	■ 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			

GENERATOR RATINGS

			Standby Rating		Prime Rating		
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120 / 208	3	60	460.6 / 575.8	1600	409.4 / 511.8	1422
	127 / 220	3	60	461 / 576	1513	409.8 / 512.3	1346
LICLEAAD	120 / 240	3	60	460.6 / 575.8	1387	409.4 / 511.8	1233
HCI 544D	139 / 240	3	60	461.6 / 577	1390	410.3 / 512.9	1235
	277 / 480	3	60	461.6 / 577	695	410.3 / 512.9	618
	347 / 600	3	60	461.6 / 577	556	410.3 / 512.9	494

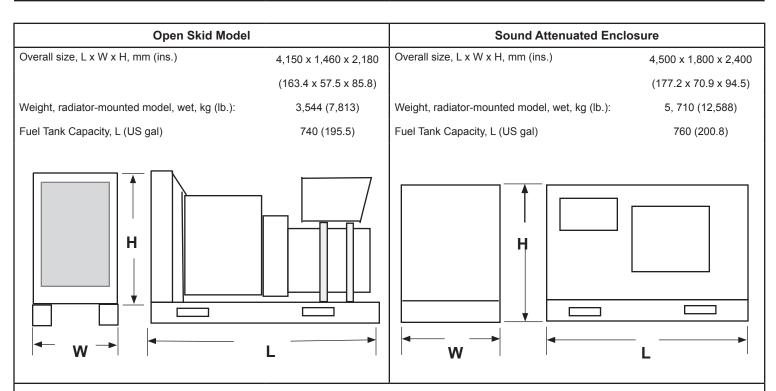
Application Data

Alternator Specifications		Engine Mechanical Specifications		
Manufacturer	Newage Stamford	Manufacturer	Perkins	
Туре	4-pole, rotating field	Engine model	2506D E15TAG1	
Exciter type	Brushless, self excited. (PMG option)	Engine type	4-cycle, Turbocharged After- cooled	
Leads: quantity, type	12, reconnectable	Cylinder arrangement	6 In Line	
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification :	Tier 3	
Insulation: Material Temperature rise	Class H 150° C , standby	Displacement, L (cu. in.) Bore and stroke, mm (in.)	15 (915) 135 x 167 (5.31 x 6.59)	
Bearing: quantity, type	Single bearing sealed	Compression ratio	16:1	
Coupling	Flexible disc	Piston speed, m/min. (ft./min.)	600 (1,968.5)	
Amortisseur Windings	Full	Main bearings: quantity, type	7, replaceable insert	
Voltage regulation, no-load to full load	± 1.0% (with PMG) ± 1.5% (with Self Excited)	Rated rpm	1,800	
Unbalanced load capability	100% of rated standby current	Max. power at rated rpm, kWm (BHP)	527 (706.4)	
Load acceptance	Per ISO - 8528	BMEP, gross, psi (Bar)	335.2 (23.1)	
Peak motor starting kVA: 480 V 480 V	(30% dip) self-excited series 4 - 1040 kVA PMG series. 3 - 1270 kVA	Overall thermal efficiency	43%	
Engine Electrical Specifications		Exhaust Gas Flow, m³ /min (cfm) Exhaust gas temperature °C (°F)	105.3 (3,718.6) 511 (952)	
Engine Electrical S	Engine Electrical System (24 Volt) 60 Hz		0.25%	
Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating	bund (negative/positive). Negative Its (DC)		Electronic Perkins ISO 8528-S Class G3	
Starter motor rated voltage (DC)	24V	Frequency regulation, steady state	± 0.5%	
Starter motor rated kW: Battery CCA rating: Battery & qty, AH rating:	7.5 676	Frequency	Fixed	
	2 x 128			
Battery Voltage (DC)	24V	Air cleaner type	Dry	
	24V	Air cleaner type Fuel Consum		
		2.		
Remote Ra	24V	Fuel Consum	ption 60 Hz	
Remote Rad	24V	Fuel Consum Diesel gal/hr (L/hr)	ption 60 Hz Standby Rating	
Remote Rac Exhaust manifold type Connection sizes:	24V	Fuel Consum Diesel gal/hr (L/hr) 100%	Standby Rating 31.96 (121)	
Remote Rac Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in)	^{24V} diator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75%	Standby Rating 31.96 (121) 23.46 (88.8)	
Remote Rac Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in)	24V	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50%	Standby Rating 31.96 (121) 23.46 (88.8) 16.24 (61.1)	
Remote Rac Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in) Charge air cooling (CAC)	^{24V} diator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25%	Standby Rating 31.96 (121) 23.46 (88.8) 16.24 (61.1) 11.20 (42.4)	
Remote Rad Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in) Charge air cooling (CAC) Water inlet ID hose, mm (in)	^{24V} diator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25% Diesel gal/hr (L/hr)	Standby Rating 31.96 (121) 23.46 (88.8) 16.24 (61.1) 11.20 (42.4) Prime Power Rating	
Remote Rad Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in) Charge air cooling (CAC) Water inlet ID hose, mm (in) Water outlet ID hose, mm (in) Static head allowable above	^{24V} diator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25% Diesel gal/hr (L/hr) 100%	Standby Rating 31.96 (121) 23.46 (88.8) 16.24 (61.1) 11.20 (42.4) Prime Power Rating 28.79 (109)	

Application Data

Cooling		Lubrication		
Radiator Systems	60 Hz	Lubricating System	60 Hz	
Ambient temperature, °C (°F)	46 (115)	Туре	Full pressure	
Engine jacket water capacity L (gal)	TBA	Oil pan capacity, L, (qt.) Recommended lube oil	53 (56) API CI-4	
Radiator system capacity, including engine, L (gal.)	TBA	Oil pan capacity with filter, L (qt.)	60 (63.4)	
Engine jacket water flow, L/min (g/min)	372 (98.3)	Oil filter: quantity, type	TBA, Cartridge	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	150 (8,532)	Oil cooler Maximum oil temperature, °C(°F)	Oil to Water 114 (237)	
Heat rejected to charge cooler at rated kW, dry exhaust, kW (Btu/min.)	112 (6,371)	Ventilation and Air-Flow Requirements		
Water pump type	Centrifugal	Air Requirements	60 Hz	
Fan, kWm (HP)	28 (37.5)	Radiator-cooled cooling air, m³/min. (scfm)	866 (30,582)	
		Air density kg/m³ (ibm/ft³)	1.20 (0.075)	
Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. H ² O)	62.2 (0.25)	Heat rejected to exhaust, kW (btu/min)	373 (21,217)	
4D/A) / EVEL COUND ATTENUATED ENGLOSES	76 dB(A) @ 23 feet	Heat radiated to surrounding air Engine: kW (Btu)	43 (2,446)	
dB(A) LEVEL SOUND ATTENUATED ENCLOSED		Combustion air, m³/min. (cfm)	38 (1,342)	

Dimensions and Weights



NOTE: The drawings above are only representative of the overall dimensions. For full detailed installation drawings please consult your local distributor or contact Himoinsa Power Systems @ www.hipowersystems.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 continous 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).



CONTROLLER DISPLAY:

- 1. Voltage between each Phase & Neutral
- 2. Voltage between Phases
- 3. Current (amps) on each Phase
- 4. Frequency
- 5. Active, Aparent & Reactive Power
- 6. Power Factor
- 7. Instant Power (KwH) and Accumulative power (day, month & year)
- 8. Fuel reserve
- 9. Oil pressure, coolant temperature
- 10. Battery voltage, battery charging alternator voltage
- 11. Engine Speed
- 12. Hours running

ENGINE ALARMS:

- 1. High coolant temperature
- 2. Low oil pressure
- 3. Emergency stop

- 4. Battery charging alternator failure
- 5. Low coolant level
- 6. Low fuel level
- 7. Over speed
- 8. Under speed
- 9. Battery low voltage

GENERATOR ALARMS:

- 1. Over-load
- 2. Unbalanced voltage
- 3. Over-voltage
- 4. Under-voltage
- 5. Over-frequency
- 6. Under-frequency
- 7. Short-circuit
- 8. Inverse Power
- 9. Incorrect phase sequence

Distributor:





