

Power Range	kW	kVA
Standby	62.5 - 81.3	62.5 - 101.6
Prime	62.5 - 73	62.5 - 91.2

MODEL:

HPW - 82 T6

Prime 62.5 - 73 62.5 - 91.2					
STANDARD EQUIPMENT					
Open Type Set Accessories Available for HPW-82					
 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 1.5, 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

Alternator Voltage	Ph		Standby Rating		Prime Rating		
		Hz	kW/kVA	Amps	kW/kVA	Amps	
	120 / 208	3	60	80 / 100	277	72 / 90	250
	127 / 220	3	60	80 / 100	262	72 / 90	236
	120 / 240	3	60	80 / 100	240	72 / 90	216
UCI 224G	139 / 240	3	60	81.3 / 101.6	243	73 / 91.2	219
	277 / 480	3	60	81.3 / 101.6	122	73 / 91.2	110
	347 / 600	3	60	81.3 / 101.6	97	73 / 91.2	88
	120 / 240	1	60	62.5 / 62.5	260	62.5 / 62.5	260
UCI 274D	120 / 240	1	60	78 / 78	325	71 / 71	295

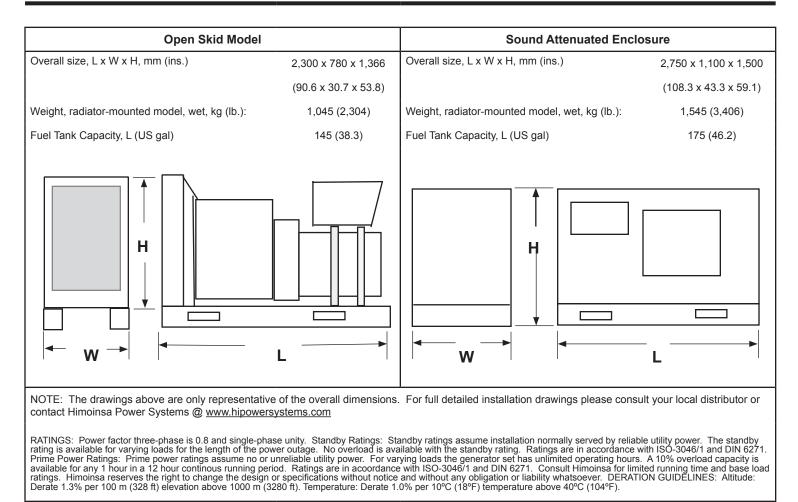
Application Data

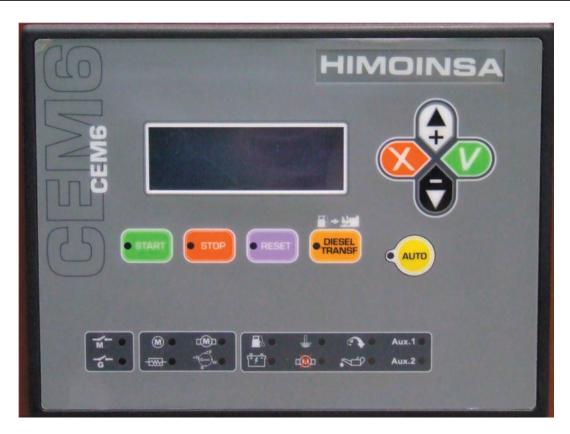
Alternator S	Specifications	Engine Mechanical Specifications		
Manufacturer Newage Stamford		Manufacturer	Perkins	
Туре	4-pole, rotating field	Engine model	1104D E44TAG1	
Exciter type	Brushless, self excited. (PMG option)	Engine type	4-cycle, Turbocharged After- cooled	
Leads: quantity, type	12, reconnectable	Cylinder arrangement	4 in line	
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification :	TIER 3	
Insulation: Material Temperature rise	Class H 150° C , standby	Displacement, L (cu. in.) Bore and stroke, mm (in.)	4.4 (269) 105 x 127 (4.13 x 5.0)	
Bearing: quantity, type	Single bearing sealed	Compression ratio	18.3 : 1	
Coupling	Flexible disc	Piston speed, m/min. (ft./min.)	457 (1,500)	
Amortisseur Windings	Full	Main bearings: quantity, type	5, 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)	94 (126)	
Load acceptance	Per ISO - 8528	BMEP, gross, psi (Bar)	206.5 (14.2)	
Peak motor starting kVA: 480 V 480 V	(30% dip) self-excited series 4 - 270 kVA PMG series. 3 - 325 kVA	Overall thermal efficiency	38.7%	
		Exhaust Gas Flow, m ³ /min (cfm)	16.5 (584)	
Engine Electric	al Specifications	Exhaust gas temperature °C (°F)	476 (889)	
	system (12 Volt) 60 Hz	Frequency regulation, no-load to full load	476 (889) 0.25%	
	-	Frequency regulation, no-load to full		
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC)	Negative 12V	Frequency regulation, no-load to full load Governor: Type: Make:	0.25% Electronic Isochronous Perkins	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating	Negative 12V 55A	Frequency regulation, no-load to full load Governor: Type: Make: Standard:	0.25% Electronic Isochronous Perkins ISO 8528 class G3	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating:	Negative 12V 55A 12V 3.0 Kw 810A	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5%	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC)	System (12 Volt) 60 Hz Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC)	System (12 Volt) 60 Hz Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry	
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Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC) Remote Rate Exhaust manifold type	System (12 Volt) 60 Hz Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum Diesel gal/hr (L/hr)	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry ption 60 Hz Standby Rating 6.4 (24.19)	
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Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC) Remote Rate Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in)	Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V diator System	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum Diesel gal/hr (L/hr) 100% 75%	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry ption 60 Hz Standby Rating 6.4 (24.19) 4.9 (18.52) 3.4 (12.85)	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC) Remote Ra Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in)	System (12 Volt) 60 Hz Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25%	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry hption 60 Hz 6.4 (24.19) 4.9 (18.52)	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery CCA rating: Battery & qty, AH rating: Battery & qty, AH rating: Battery Voltage (DC) Remote Rate Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in) Charge air cooling (CAC)	Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V diator System	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50%	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry ption 60 Hz Standby Rating 6.4 (24.19) 4.9 (18.52) 3.4 (12.85) 1.9 (7.18)	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC)Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC) Remote Ra Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Charge air cooling (CAC) Water inlet ID hose, mm (in)	Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V diator System	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25% Diesel gal/hr (L/hr)	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry ption 60 Hz Standby Rating 6.4 (24.19) 4.9 (18.52) 3.4 (12.85) 1.9 (7.18) Prime Power Rating	
Engine Electrical S Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating Starter motor rated voltage (DC) Starter motor rated kW: Battery CCA rating: Battery CCA rating: Battery & qty, AH rating: Battery Voltage (DC) Remote Ra 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) Static head allowable above	Negative 12V 55A 12V 3.0 Kw 810A 1 x 90AH 12V diator System	Frequency regulation, no-load to full load Governor: Type: Make: Standard: Frequency regulation, steady state Frequency Air cleaner type Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25% Diesel gal/hr (L/hr) 100%	0.25% Electronic Isochronous Perkins ISO 8528 class G3 ± 0.5% Fixed Dry ption 60 Hz Standby Rating 6.4 (24.19) 4.9 (18.52) 3.4 (12.85) 1.9 (7.18) Prime Power Rating 5.8 (21.92)	

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)	7.0 (1.8)	Oil pan capacity, L, (qt.) Recommended lube oil	5.5 (5.8) API CG4/CH4	
Radiator system capacity, including engine, L (gal.)	12.6 (3.3)	Oil pan capacity with filter, L (qt.)	8.0 (8.5)	
Engine jacket water flow, L/min (g/min)	170 (44.9)	Oil filter: quantity, type	1, cartridge	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	51.0 (2.901)	Oil cooler Normal oil temperature, °C(°F)	Oil to water 110 (230)	
Heat rejected to charge cooler at rated kW, dry exhaust, kW (Btu/min.)	11.0 (626)	Ventilation and Air-Flow Requirements		
Water pump type	Centrifugal	Air Requirements	60 Hz	
Fan, kWm (HP)	4.7 (6.3)	Radiator-cooled cooling air, m³/min. (scfm)	225.6 (7,966)	
		Air density kg/m³ (ibm/ft³)	1.20 (0.075)	
Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. $\rm H^2O)$	62.2 (0.25)	Heat rejected to exhaust, kW (btu/min)	79.4 (4,516)	
	67 dB(A) @ 23 feet	Heat radiated to surrounding air Engine: kW (Btu)	7.5 (427)	
dB(A) LEVEL SOUND ATTENUATED ENCLOSED		Combustion air, m³/min. (cfm)	7.5 (263)	

Dimensions and Weights





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 :

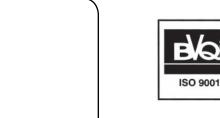
- 1. High coolant temperature
- 2. Low oil pressure
- 3. Emergency stop

- 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:**





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