



HIPOWER

HFW SERIES

Power Range

kW

kVA

Standby

184 - 184.8

229.8 - 231

Prime

167 - 168

208.7 - 210

MODEL:

HFW - 200 T6

STANDARD EQUIPMENT

Open Type Set	Accessories Available for HFW-200 T6
<ul style="list-style-type: none"> ■ Skid with integral day fuel tank (non-UL) ■ HIPOWER digital auto-start control panel (Page 4) ■ Dry-type replaceable element air-cleaner ■ Industrial muffler ■ Battery, battery rack, and cables ■ Fuel and lubrication oil replaceable element filters ■ Stamford AVR brushless 12-wire reconnectable alternator ■ Oil drain hand pump ■ Vibration Isolators between base and set assembly ■ Main Line Circuit Breaker for overload protection ■ Belt driven charging alternator ■ Guards for shielding all rotating parts ■ Fuel cut-off solenoid and protection switches ■ Radiator with pusher fan ■ Operation and installation manuals 	<p style="text-align: center;"><u>Mechanical Accessories Offered</u></p> <ul style="list-style-type: none"> ■ Road towing trailers to DOT standards ■ Critical grade exhaust mufflers ■ UL double wall fuel tanks to customer specification ■ Oil field type skid ■ Flexible exhaust connection for open sets ■ Oil pressure and engine temperature gauges ■ Extended warranty coverage above the standard one year <p style="text-align: center;"><u>Generator End Accessories Offered</u></p> <ul style="list-style-type: none"> ■ PMG excitation for enhanced motor-starting ■ Anti-condensation heaters in alternator <p style="text-align: center;"><u>Electrical and Control Accessories Offered</u></p> <ul style="list-style-type: none"> ■ Automatic battery chargers 5 and 10 amp ■ NFPA 110 controls and remote annunciator ■ Analog instrumentation in lieu of digital ■ Transfer switch and paralleling control panels ■ Water Jacket Heater ■ Remote control from PC via hard and/or wireless link ■ GPS for mobile sets ■ Digital Timer
Sound Attenuated Enclosure	
<ul style="list-style-type: none"> ■ Fully sound attenuated enclosure (equipped as open set) ■ Powder Painted with finish that exceeds 1000-hr salt test ■ Rock wool insulation behind protective barrier ■ Curved edges and minimum outside fasteners ■ Single lifting point 	

GENERATOR RATINGS

Alternator	Voltage	Ph	Hz	Standby Rating		Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
UCI 274H	120 / 208	3	60	183.8 / 229.8	639	167 / 208.7	580
	127 / 220	3	60	184.8 / 231	607	167 / 208.7	549
	120 / 240	3	60	183.8 / 229.8	553	167 / 208.7	502
	139 / 240	3	60	184.8 / 231	556	168 / 210	506
	277 / 480	3	60	184.8 / 231	278	168 / 210	253
	347 / 600	3	60	184.8 / 231	223	168 / 210	202

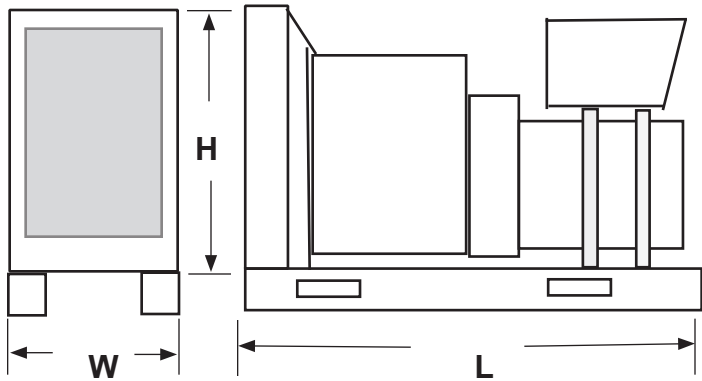
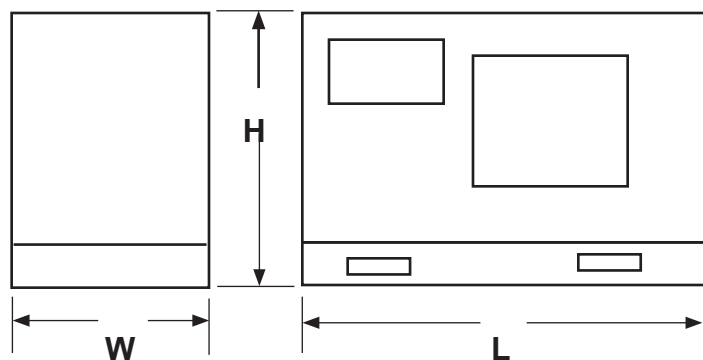
Application Data

Alternator Specifications		Engine Mechanical Specifications	
Manufacturer	Newage Stamford	Manufacturer	Iveco Aifo
Type	4-pole, rotating field	Engine model	NEF67 TE2
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:		Displacement, L (cu. in.)	6.7 (409)
Material.....	Class H	Bore and stroke, mm (in.)	104 x 132 (4.09 x 5.20)
Temperature rise.....	150° C , standby	Compression ratio	16.5 : 1
Bearing: quantity, type	Single bearing sealed	Piston speed, m/min. (ft./min.)	474 (1,555)
Coupling	Flexible disc	Main bearings: quantity, type	7, precision 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)	200 (268)
Unbalanced load capability	100% of rated standby current	BMEP, gross, psi (Bar)	298.7 (20.6)
Load acceptance	Per ISO - 8528	Overall thermal efficiency	40.9%
Peak motor starting kVA:	(30% dip)	Exhaust Gas Flow, m ³ /min (cfm)	37.9 (1,338)
480 V	self-excited series 4 - 740 kVA	Exhaust gas temperature °C (°F)	560 (1,040)
480 V	PMG series. 3 - 920 kVA	Frequency regulation, no-load to full load	0.25 %
Engine Electrical Specifications		Governor: Type:	Electronic Isochronous
Engine Electrical System (12 Volt) 60 Hz		Make:	Bosch EDC7
		Standard:	ISO 3046-4 Class A1
Battery charging alternator:		Frequency regulation, steady state	± 0.5%
Ground (negative/positive).	Negative	Frequency	Fixed
Volts (DC).....	14V	Air cleaner type	Dry
Ampere rating.....	90A		
Starter motor rated voltage (DC)	12V		
Starter motor rated kW:	3 Kw		
Battery CCA rating:	1200A		
Battery & qty, AH rating:	1 x 185 AH		
Battery Voltage (DC)	12V		
Remote Radiator System		Fuel Consumption 60 Hz	
Exhaust manifold type		Diesel gal/hr (L/hr)	Standby Rating
Connection sizes:		100%	13.5 (51.0)
Water inlet ID hose, mm (in)		75%	11.1 (42.2)
Water outlet ID hose, mm (in)		50%	6.9 (26.3)
Charge air cooling (CAC)	Not Available	25%	4.7 (17.9)
Water inlet ID hose, mm (in)		Diesel gal/hr (L/hr)	Prime Power Rating
Water outlet ID hose, mm (in)		100%	12.4 (47.0)
Static head allowable above engine, ft.H ² O (kPa)		75%	10.3 (38.9)
Maximum CAC restriction H ² O in.		50%	6.4 (24.2)
Contact the HIPOWER distributor for special cooling options		25%	4.4 (16.5)

Application Data

Cooling		Lubrication	
Radiator Systems	60 Hz	Lubricating System	60 Hz
Ambient temperature, °C (°F)	50 (122)	Type	Full pressure
Engine jacket water capacity L (gal)	10.5 (2.8)	Oil pan capacity, L, (qt.)	15 (15.9)
Radiator system capacity, including engine, L (gal.)	43.5 (11.5)	Recommended lube oil	ACEA E3/E5
Engine jacket water flow, L/min (g/min)	170 (44.9)	Oil pan capacity with filter, L (qt.)	17 (18.0)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	88.3 (5,025)	Oil filter: quantity, type	1, cartridge
Heat rejected to charge cooler at rated kW, dry exhaust, kW (Btu/min.)	32.1 (1,825)	Oil cooler	Oil to Water
Water pump type	Centrifugal	Maximum oil temperature, °C (°F)	120 (248)
Fan, kWm (HP)	8.6 (11.5)	Ventilation and Air-Flow Requirements	
Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. H ² O)	61.25 (0.25)	Air Requirements	60 Hz
dB(A) LEVEL SOUND ATTENUATED ENCLOSED	72 dB(A) @ 23 feet	Radiator-cooled cooling air, m ³ /min. (scfm)	438 (15,468)
		Air density kg/m ³ (ibm/ft ³)	1.20 (0.075)
		Heat rejected to exhaust, kW (btu/min)	149.4 (8,500)
		Heat radiated to surrounding air Engine: kW (Btu)	14.3 (812)
		Combustion air, m ³ /min. (cfm)	13.3 (468)

Dimensions and Weights

Open Skid Model		Sound Attenuated Enclosure	
Overall size, L x W x H, mm (ins.)	2,900 x 900 x 1,592 (114.2 x 35.4 x 62.7)	Overall size, L x W x H, mm (ins.)	3,300 x 1,200 x 1,800 (129.9 x 47.2 x 70.9)
Weight, radiator-mounted model, wet, kg (lb.):	1,650 (3,638)	Weight, radiator-mounted model, wet, kg (lb.):	2,390 (5,269)
Fuel Tank Capacity, L (US gal)	360 (95.1)	Fuel Tank Capacity, L (US gal)	245 (64.7)
			

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



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:

