

■ Single lifting point

Power Range	kW	kVA					
Standby	345 - 350	431 - 437.5		MODEL:	HFW - 350 T6		
Prime	312 - 317	390 - 396.3					
STANDARD EQUIPMENT							
Open	Type Set			Accessories Available for HFW-350 T6			
■ Skid with integral day fuel t	ank (non-UL)			Mechanical Accessories Offered			
■ HIPOWER digital auto-star	t control panel (F	Page 4)	•	■ Road towing trailers to DOT standards			
■ Dry-type replaceable eleme	ent air-cleaner		•	Critical grade exhaust muffle	ers		
Industrial muffler			•	UL double wall fuel tanks to	customer specification		
■ Battery, battery rack, and c	ables		•	■ Oil field type skid			
■ Fuel and lubrication oil repl	laceable element	t filters	•	■ Flexible exhaust connection for open sets			
■ Stamford AVR brushless 12	2-wire reconnecta	able 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 f	or overload prote	ection	Generator End Accessories Offered				
■ Belt driven charging alterna	ator		■ PMG excitation for enhanced motor-starting				
■ Guards for shielding all rota	ating 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				

GENERATOR RATINGS

Digital Timer

				Standby	Rating	Prime I	Rating
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120 / 208	3	60	345 / 431	1,196	312 / 390	1,082
	127 / 220	3	60	347 / 433.8	1,140	314 / 392.5	1,031
LICLAAAE	120 / 240	3	60	345 / 431	1,037	312 / 390	938
HCI 444F	139 / 240	3	60	350 / 437.5	1,054	317 / 396.3	954
	277 / 480	3	60	350 / 437.5	527	317 / 396.3	477
	347 / 600	3	60	350 / 437.5	421	317 / 396.3	382

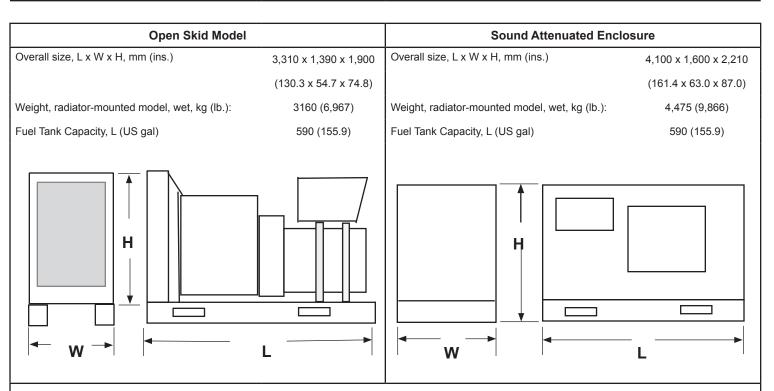
Application Data

Alternator S	pecifications	Engine Mechanical Specifications		
Manufacturer	Newage Stamford	Manufacturer	Iveco Aifo	
Туре	4-pole, rotating field	Engine model	CURSOR 13 TE3X	
Exciter type	Brushless, self excited. (PMG option)	Engine type	4 cycles, Turbocharged After- cooled	
Leads: quantity, type	12, reconnectable	Cylinder arrangement	6 in-ine	
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.)	12.9 (787) 135 x 150 (5.31 x 5.91)	
Bearing: quantity, type	Single bearing sealed	Compression ratio	16.5 : 1	
Coupling	Flexible disc	Piston speed, m/min. (ft./min.)	540.4 (1,773)	
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)	371 (497)	
Load acceptance	Per ISO - 8528	BMEP, gross, psi (Bar)	493 (30.3)	
Peak motor starting kVA: 480 V 480 V	(30% dip) self-excited series 4 - 1040 kVA PMG series. 3 - 1280 kVA	Overall thermal efficiency	38.6	
Engine Electrical Specifications		Exhaust Gas Flow, m³ /min (cfm) Exhaust gas temperature °C (°F)	93.3 (3,296) 580 (1,076)	
Engine Electrical S	ystem (24 Volt) 60 Hz	Frequency regulation, no-load to full load	0.25%	
Battery charging alternator: Ground (negative/positive). Volts (DC) Ampere rating	Negative 28V 90A	Governor: Type: Make: Standard:	Electronic Bosch EDC7 ISO 3046-4 Class A1	
Starter motor rated voltage (DC)	24V	Frequency regulation, steady state	± 0.50%	
Starter motor rated kW: Battery CCA rating: Battery & qty, AH rating:	6.0 Kw 1200A 2 x 185AH	Frequency	Fixed	
Battery Voltage (DC)	24V	Air cleaner type	Dry	
Remote Ra	diator System	Fuel Consum	nption 60 Hz	
Exhaust manifold type		Diesel gal/hr (L/hr)	Standby Rating	
Connection sizes:		100%	26.9 (102.0)	
Water inlet ID hose, mm (in)		75%	21.6 (81.6)	
Water outlet ID hose, mm (in)		50%	16.2 (61.2)	
Charge air cooling (CAC)	Not Available	25%	9.4 (35.7)	
Water inlet ID hose, mm (in)	NOT Available	Diesel gal/hr (L/hr)	Prime Power Rating	
Water outlet ID hose, mm (in)		100%	24.5 (92.7)	
Static head allowable above engine, ft.H ² O (kPa)		75%	19.6 (74.2)	
Maximum CAC restriction H ² O in.		50%	14.7 (55.6)	
Contact the HIPOWER distri	butor for special cooling options	25%	8.6 (32.4)	

Application Data

Cooling		Lubrication		
Radiator Systems	60 Hz	Lubricating System	60 Hz	
Ambient temperature, °C (°F)	40 (118)	Туре	Full pressure	
Engine jacket water capacity L (gal)	20 (5.3)	Oil pan capacity, L, (qt.) Recommended lube oil	27 (28.5) ACEA E3/E5	
Radiator system capacity, including engine, L (gal.)	68 (18)	Oil pan capacity with filter, L (qt.)	35 (37)	
Engine jacket water flow, L/min (g/min)	552.6 (146)	Oil filter: quantity, type	2, cartridge	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	157.8 (8,974)	Oil cooler Maximum oil temperature, °C (°F)	Oil to water 120 (248)	
Heat rejected to charge cooler at rated kW, dry exhaust, kW (Btu/min.)	98.9 (5,627)	Ventilation and Air-Flow Requirements		
Water pump type	Centrifugal	Air Requirements	60 Hz	
Fan, kWm (HP)	25 (33.5)	Radiator-cooled cooling air, m³/min. (scfm)	660 (23,308)	
		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)	61.25 (0.25)	Heat rejected to exhaust, kW (btu/min)	305.9 (17,403)	
4D/A) LEVEL COUND ATTENUATED ENGLOCED	75 dD(A) @ 22 food	Heat radiated to surrounding air Engine: kW (Btu)	20.9 (1,187)	
dB(A) LEVEL SOUND ATTENUATED ENCLOSED	75 dB(A) @ 23 feet	Combustion air, m³/min. (cfm)	33.8 (1,195)	

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:

Distributor:

- 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
- Over-voltage
- 4. Under-voltage
- 5. Over-frequency
- 6. Under-frequency
- 7. Short-circuit
- 8. Inverse Power
- 9. Incorrect phase sequence







