

Power Range	kW	kVA
Standby	288	360
Prime	260	325

MODEL: HFW - 290 T6

STANDARD EQUIPMENT			
Open Type Set	Accessories Available for HFW-290 T6		
 Skid with integral day fuel tank (non-UL) 	Mechanical Accessories Offered		
 Himoinsa CMD2.0 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 I	Rating
Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
120 / 208	3	60	288 / 360	1000	260 / 325	902
127 / 220	3	60	288 / 360	946	260 / 325	852
120 / 240	3	60	288 / 360	867	260 / 325	782
139 / 240	3	60	288 / 360	867	260 / 325	782
277 / 480	3	60	288 / 360	434	260 / 325	391
347 / 600	3	60	288 / 360	347	260 / 325	313
	120 / 208 127 / 220 120 / 240 139 / 240 277 / 480	120 / 208 3 127 / 220 3 120 / 240 3 139 / 240 3 277 / 480 3	120 / 208 3 60 127 / 220 3 60 120 / 240 3 60 139 / 240 3 60 277 / 480 3 60	Voltage Ph Hz kW/kVA 120 / 208 3 60 288 / 360 127 / 220 3 60 288 / 360 120 / 240 3 60 288 / 360 139 / 240 3 60 288 / 360 277 / 480 3 60 288 / 360	120 / 208 3 60 288 / 360 1000 127 / 220 3 60 288 / 360 946 120 / 240 3 60 288 / 360 867 139 / 240 3 60 288 / 360 867 277 / 480 3 60 288 / 360 434	VoltagePhHzkW/kVAAmpskW/kVA120 / 208360288 / 3601000260 / 325127 / 220360288 / 360946260 / 325120 / 240360288 / 360867260 / 325139 / 240360288 / 360867260 / 325277 / 480360288 / 360434260 / 325

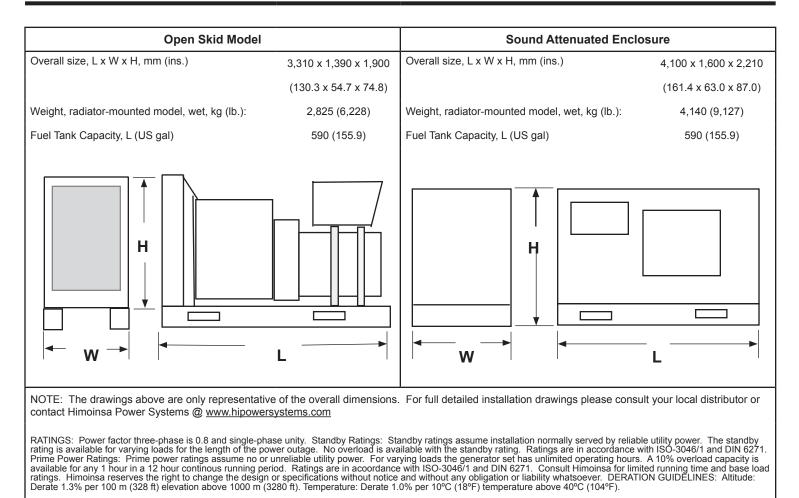
Application Data

Alternator S	Specifications	Engine Mechanical Specifications		
Manufacturer	Newage Stamford	Manufacturer	Iveco Aifo	
Туре	4-pole, rotating field	Engine model	CURSOR 10 TE1D	
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.)	10.3 (628) 125 x 140 (4.92 x 5.51)	
Bearing: quantity, type	Single bearing sealed	Compression ratio	16.5 : 1	
Coupling	Flexible disc	Piston speed, m/min. (ft./min.)	503.8 (1,653)	
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)	311 (417)	
Load acceptance	Per ISO - 8528	BMEP, gross, psi (Bar)	314 (21.7)	
Peak motor starting kVA: 480 V 480 V	(30% dip) self-excited series 4 - 780 kVA PMG series. 3 - 940 kVA	Overall thermal efficiency	36.3	
Engine Electrical Specifications		Exhaust Gas Flow, m³ /min (cfm) Exhaust gas temperature °C (°F)	60.8 (2,148) 497 (927)	
Engine Electrical System (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:	5.5Kw 1200A 2 x 185AH	Frequency	Fixed	
Battery Voltage (DC)	241/			
Remote Radiator System		Air cleaner type	Dry	
Remote Ra	24V Idiator System		-	
Remote Ra Exhaust manifold type		Air cleaner type Fuel Consum Diesel gal/hr (L/hr)	ption 60 Hz	
		Fuel Consum	-	
Exhaust manifold type		Fuel Consum Diesel gal/hr (L/hr)	ption 60 Hz Standby Rating	
Exhaust manifold type Connection sizes:		Fuel Consum Diesel gal/hr (L/hr) 100%	option 60 Hz Standby Rating 23.4 (88.4)	
Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in)	idiator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75%	23.4 (88.4) 18.7 (70.7)	
Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in)		Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50%	14.0 (53.0)	
Exhaust manifold type Connection sizes: Water inlet ID hose, mm (in) Water outlet ID hose, mm (in) Charge air cooling (CAC)	idiator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25%	Standby Rating 23.4 (88.4) 18.7 (70.7) 14.0 (53.0) 7.0 (26.6)	
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)	idiator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25% Diesel gal/hr (L/hr)	Prime Power Rating	
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	idiator System	Fuel Consum Diesel gal/hr (L/hr) 100% 75% 50% 25% Diesel gal/hr (L/hr) 100%	Standby Rating 23.4 (88.4) 18.7 (70.7) 14.0 (53.0) 7.0 (26.6) Prime Power Rating 22.1 (83.7)	

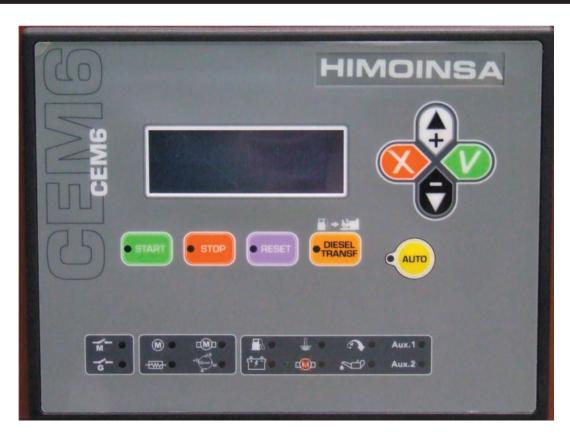
Application Data

Cooling		Lubrication		
Radiator Systems	60 Hz	Lubricating System	60 Hz	
Ambient temperature, °C (°F)	50 (122)	Туре	Full pressure	
Engine jacket water capacity L (gal)	15 (4.0)	Oil pan capacity, L, (qt.) Recommended lube oil	23.5 (24.8) ACEA E3-E5	
Radiator system capacity, including engine, L (gal.)	63 (16.6)	Oil pan capacity with filter, L (qt.)	35 (37)	
Engine jacket water flow, L/min (g/min)	553 (146.1)	Oil filter: quantity, type	2, Cartridge	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	127.7 (7,261)	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.)	67.4 (3,832)	Ventilation and Air-Flow Requirements		
Water pump type	Centrifugal	Air Requirements	60 Hz	
Fan, kWm (HP)	24.5 (32.8)	Radiator-cooled cooling air, m³/min. (scfm)	585 (20,659)	
		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)	247.5 (14,079)	
	73 dB(A) @ 23 feet	Heat radiated to surrounding air Engine: kW(btu)/m	24.8 (1,412)	
dB(A) LEVEL SOUND ATTENUATED ENCLOSED		Combustion air, m³/min. (cfm)	21.8 (771)	

Dimensions and Weights



HIPOWER CEM6 Autostart Digital Controller



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:



