



HI SERIES

Power Range	kW	kVA
Standby	345	431
Prime	312	390

MODELS:

HI - 350

HI - 350

STANDARD EQUIPMENT

Open Set Model: HI-350	Accessories Available for HI-350
<ul style="list-style-type: none"> ■ Skid with integral day fuel tank (non-UL) ■ Deep Sea 5310 Control Panel ■ 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"> ■ Weather protective canopy (for Open Set) ■ 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 (Auto-start sets only)
<p style="text-align: center;">Sound Attenuated Set Model: HI-350</p> <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
HCI 444F	120 / 208	3	60	345 / 431	1,196	312 / 390	1,082
	127 / 220	3	60	345 / 431	1,131	312 / 390	1,023
	120 / 240	3	60	345 / 431	1,037	312 / 390	938
	139 / 240	3	60	345 / 431	1,037	312 / 390	938
	277 / 480	3	60	345 / 431	518	312 / 390	469
	347 / 600	3	60	345 / 431	414	312 / 390	375

Application Data

Alternator Specifications		Engine Mechanical Specifications	
Manufacturer	Newage Stamford	Manufacturer	Triton Power
Type	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-line
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification :	TIER 3
Insulation:		Displacement, L (cu. in.)	12.9 (787)
Material.....	Class H	Bore and stroke, mm (in.)	135 x 150 (5.31 x 5.91)
Temperature rise.....	150° C , standby	Compression ratio	16.5 : 1
Bearing: quantity, type	Single bearing sealed	Piston speed, m/min. (ft./min.)	540.4 (1,773)
Coupling	Flexible disc	Main bearings: quantity, type	7, replaceable 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)	371 (497)
Unbalanced load capability	100% of rated standby current	BMEP, gross, psi (Bar)	493 (30.3)
Load acceptance	Per ISO - 8528	Overall thermal efficiency	38.6
Peak motor starting kVA:	(30% dip)	Exhaust Gas Flow, m ³ /min (cfm)	93.3 (3,296)
480 V	self-excited series 4 - 1040 kVA	Exhaust gas temperature °C (°F)	580 (1,076)
480 V	PMG series. 3 - 1280 kVA	Frequency regulation, no-load to full load	0.25%
Engine Electrical Specifications		Governor: Type:	Electronic
Engine Electrical System (24 Volt) 60 Hz		Make:	Bosch EDC7
		Standard:	ISO 3046-4 Class A1
Battery charging alternator:		Frequency regulation, steady state	± 0.50%
Ground (negative/positive).	Negative	Frequency	Fixed
Volts (DC).....	28V	Air cleaner type	Dry
Ampere rating.....	90A		
Starter motor rated voltage (DC)	24V		
Starter motor rated kW:	6.0 Kw		
Battery CCA rating:	1200A		
Battery & qty, AH rating:	2 x 185AH		
Battery Voltage (DC)	24V		
Remote Radiator System		Fuel Consumption 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)		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)
		25%	8.6 (32.4)