# HNI-500 T6U

#### 60Hz STANDBY POWER RATINGS



#### 

## 500kW/60Hz/1800RPM

VOLTAGE VAC	120/240V	120/208V	139/240V	277/480V	347/600V**
RATING	Standby	Standby	Standby	Standby	Standby
PHASE	N/A	3	3	3	3
PF	N/A	0.8	0.8	0.8	0.8
HZ	N/A	60	60	60	60
KW	N/A	500	500	500	500
KVA	N/A	625	625	625	625
AMPS	N/A	1734	1503	751	601

## Description

HIPOWER<sup>®</sup> Heavy Duty Industrial generators are an efficient, reliable and versatile source of back-up electrical power that have been designed to operate in the most extreme working conditions. All HIPOWER<sup>®</sup> Heavy Duty Industrial generators combine an innovative design and the use of high quality materials that provide the user with the most dependable power that can be relied on for non-stop power with easy to operate controls.

Powered by a radiator-cooled, industrial PSI Spark Ignited engine that meets current Environmental Protection Agency (EPA) exhaust emission regulations, driving a single bearing, four-pole, three-phase alternator, with IP23 protection. The Emergency Power kVA rating is given with a 125 degree °C alternator winding temperature rise.

# HIPOWER<sup>®</sup> Features and Benefits

**PSI Engine:** Spark Ignited Engine: Long-life, heavy-duty, 4-cycle, spark-ignited engine for economy of operation and maximum reliability and durability. Capable of full rated load acceptance in one step.

Cooling: Radiator with belt driven pusher fan.

Air Filter: Heavy-duty replaceable element air-cleaner.

**Alternator:** Single bearing, PMG-Excited, self-ventilated, 12-wire re-connectable, 60Hz brushless alternator with Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads.

# HIPOWER<sup>®</sup> Features and Benefits

**Enclosure:** Fully sound attenuated enclosure, manufactured using 7-gauge steel and thicker for the base; 12-gauge and 14-gauge for the enclosure, Interpon

A4700 primer, in combination with Interpon 600 series coatings, are designed for exterior exposure and offers excellent light and weather resistance exceeding 1400hr salt spray test. A 1" thick layer of durable sound insulating, oil and fire resistant foam material is installed all around the inside of the enclosure to allow high-pressure water cleaning. Vertical air discharge for quiet operation. Wide steel lockable access doors with rubber seals, easy access for maintenance and service activities, lift off Die Cast Zinc hinges textured black powder coat and corrosion resistant hardware and fasteners.

Exhaust: Effective low noise, steel catalytic converter with rain cap.

**Controls:** Digital control panel with manual and automatic start and stop features. Many programmable automatic functions for local and remote controls with LED lights, tamper proof engine hour recorder.

**Certification:** Generator set is UL 2200 Listed and CSA certified and meets ISO 8528-5.

HIMOINSA POWER SYSTEMS, INC.

16600 South Theden Street, Olathe, KS 66062 Tel: 913 495 5557 | Fax: 913 495 5575 | **www.hipowersystems.com** 







# APPLICATION DATA

Model         2181, HO         Oil pan capacity with filter-eps II.]         42.440,           EPA cartified         Yes         Oil cooler         Laud           Crantshaft speed         1.800 pm         Recommended lubricating oil grade         SAE 100% ALLOW ASH 100 VAIS FOURCE OIR HIGHER           Type         NG fueled, 4 atroke         Oil consumption at full load         n/a           Spear, Plug         Oil pressure at 1000 pm-psi IRPA         44 303           Aspiration         Chapted Cooled Foreign         Mone ELECTRICAL SYSTEM         42 voit           Number of Quinders         12         Starting more voitage         42 voit           Optider arrangement         V-Type         Cold Cranking Amps - minimum         N/A           Displacement, CID littersi         1388 1219         Battery capacity         45 Amp           Bater and Stroke ins (mm)         5x 8.5 128 x 142)         Batery capacity         4000CA GROUP SIZE SD           Nominal power         764 p-         -         -         -           Coling         Liquid         -         -         -           Governor         Red Latery capacity         -         -         -           Coling         Liquid         -         -         -           Governor	ENGINE SPECIFICATION		LUBRICATION SYSTEM	
EPA certified         Yes         On cooler         Liquid           Cankshaft speed         1.800 rpm         Recommended lubricating oil grade         AR EXMAD LOW ASH OIL API REATING OF CP/CP OH Indexer         API R	Manufacturer	PSI Heavy Duty	Oil pan capacity - qts (L)	35 (33)
1.800 rpm         Recommended lubicitating oil grade         SAR 18VAD LOW AGH OIL AP RRTING OF CPVEF OFB HIGHER           Type         NG fueled, 4.stroke         Oil consumption at full load         n/s           Ignitan         Spair Flug         Oil consumption at full load         n/s           Aspiration         Charged Colde Forced Induction         ENGINE ELECTRICAL SYSTEM         4 (303)           Numbar of Cylinders         12         Starting motor voltage         24 volt           Cylinder arrangement         VType         Cold Cranking Armge - minimum         N/A           Displacement CID (iters)         1388 (219)         Battery capacity charging Altenator         45 Amp           Bee and Stroke Isromi         5 × 56 (128 × 142)         Battery capacity         UOCCA GROUP SIZE 8D           Nornical power         Tet h         Electronic         US         US           Gowernor Regulation Class         ISO 828 Part 1 Class 61         US         US         US           String motor & stemator         24 volt         US         US         US           Gowernor Regulation Class         ISO 828 Part 1 Class 61         US         US         US           String motor & stemator         Dry, replaceable cartridge         US         US           Mandreturer         Star	Model	21.9L HO	Oil pan capacity with filter - qts (L)	42.4 (40)
Cranishaft speed         API RATING OF CPCE OR Information           Aspiration         Spark Plug         Old cansumption at full load         information         information           Aspiration         Spark Plug         Stating motor voltage         24 volt         information           Objection of Stroke ins firmin         S & 5 & (128 H21)         Battery capacity         if Aprice Amp           Sold Stroke ins firmin         S & 5 & (128 H21)         Battery capacity         if Aprice Amp           Governor Regulation         Isod Stroke ins firmin         if Aprice Amp         if Aprice Amp           Governor Regulation         Isod Stroke ins firmin         if Aprice Amp         if Aprice Amp           Areina Stroke ins firmin         Isod Stroke ins firmin         if Aprice Amp         if Aprice Amp           Governor Regulation         Isod Stroke ins firmin         if Aprice Amp         if Aprice Amp           Areina Stroke ins firmin         Isod S	EPA certified	Yes	Oil cooler	Liquid
Spark Plug         Oil pressure at 1000 rpm-pai (kPA)         44 (303)           Aspiration         Charged Cocled Forced Induction         ENGINE ELECTRICAL SYSTEM         24 volt           Number of Cylinders         12         Starting motor voltage         24 volt           Cylinder arrangement         V-Type         Cold Cranking Artges - minimum         N/A           Displacement CID (itres)         1388 (219)         Battery capacity         1400CCA GROUP S/2E 80           Nominal power         744 hp         Using Control         1400CCA GROUP S/2E 80           Cooling         Liquid         Electronic         Using Control           Governor Regulation Class         ISO 8528 Part 1 Class G1         Using Control         Using Control           Starting motor & alternator         165 1         Using Control         Using Control           Starting motor & alternator         05 5.1         Using Control         Using Control           Alceaner type         Dry, replacable cartridge         Using Control         Using Control           Model 120/2080 Three phase         HCIS34D         Using Control         Using Control           Model 27/7480/ Three phase         HCIS34D         Using Control         Using Control           Model 27/7480/ Three phase         HCIS34D         Using Control	Crankshaft speed	1,800 rpm	Recommended lubricating oil grade	API RATING OF CP/CF OR
Appiration         Charged Cooled Forced Induction         EVENTER           Number of Cylinders         12         Starting motor voltage         24 volt           Cylinder arrangement         V/Type         Cold Cranking Amps - minimum         N/A           Displacement CID üters)         1338 (P1.9)         Battery charging Atternator         45 Arop           Bare and Stroke ins Imm)         5 x 5.6 (128 x 142)         Battery capacity         1400CCA GROUP SIZE BD           Nominal power         74 hp         Electronic         1400CCA GROUP SIZE BD           Cooling         Liquid	Туре	NG fueled, 4-stroke	Oil consumption at full load	n/a
AsplarationInductionParticle ClassifiedNumber of Qylinders and Qylinders142 (200)Starting motor voltage24 voltOkjinder arrangementV-TypeCold Cranking Ampse-minimumN/ADisplacement CID (liters)388 (219)Battery charging Alternator45 AmpBore and Stroke ins (mm)5 x 5 6 (128 x 142)Battery charging Alternator1400CCA GROUP SIZE 8DNominal powerCold Cranking Ampse-minimumN/ACoolingLiquid	Igniton	Spark Plug	Oil pressure at 1000 rpm– psi (kPA)	44 (303)
Control         V-Type         Cold Canking Amps - minimum         NA           Displacement CID (itters)         1386 (21.9)         Battery charging Alternator         45 Amp           Bore and Stroke Ins (mm)         5 x 5 6 (128 x 142)         Battery capacity         1400CCA GROUP SIZE 8D           Neminal power         764 hp	Aspiration		ENGINE ELECTRICAL SYSTEM	
Displacement CID (liters)1388 (21.9)Battery charging Alternator45 AmpBore and Stroke ins (mm)5 x 5.6 (128 x 142)Battery capacity1400CCA GROUP SIZE 8DNominal power764 hp	Number of Cylinders	12	Starting motor voltage	24 volt
Bare and Stroke ins (nm)     6 x 5.6 (128 x 142)     Battery capacity     1400CCA GROUP SIZE 8D       Nominal power     764 hp     1400CCA GROUP SIZE 8D       Cooling     Liquid     1       Governor Regulation Class     150 6528 Part 1 Class G1     1       Frequency Regulation     1sochronous     1       Starting motor & alternator     24 Volt     1       Compression ratio     10.5.1     1       Air cleaner type     Doriscable cartridge     1       Manufacturer     STAMFORD     1       Model 120/208V Three phase     HCI534D     1       Model 277/490V Three phase     HCI534D     1       Alternator Type     Four pole, rotating field     1       Excitation System     Rouse Packeted     1       Power factor     0.8     1     1       Number of leads     12 leads, reconnectable     1       Stator Pitch     2/3     1     1       Nundings Temperature Rise     Class H (125/40° C)     1     1       Enclosure (IEC-34-S)     IP3     1     1       Baring     Single - seled     1     1       Coupling     Finite disc     1     1       Mondi Strofer - no load to full load with Maximital and commercial applications     1	Cylinder arrangement	V-Type	Cold Cranking Amps - minimum	N/A
Nominal power         764 hp           Cooling         Liquid           Governor         Electronic           Governor Regulation Class         ISO 8528 Part 1 Class G1           Frequency Regulation         Isochronous           Starting motor & alternator         24 Volt           Compression ratio         10.5:1           Air cleaner type         Dry, replacable cartridge           Manufacturer         STAMFORD           Manufacturer         STAMFORD           Model 120/208V Three phase         HCI534E           Model 277/480V Three phase         HCI534D           Atternator Type         Four pole, rotating field           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Type         Class H           Windings - Temperature Rise         Class H           Couling         Single, sealed           Coulung         File/Log C'C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coulung         File/Log C'C)<	Displacement CID (liters)	1388 (21.9)	Battery charging Alternator	45 Amp
CoolingLiquidGovernorElectronicGovernor Regulation ClassISO 8528 Part 1 Class G1Frequency Regulation ClassISO 8528 Part 1 Class G1Frequency RegulationIsochronousStarting motor & alternator24 VoltCompression ratio10.5.1Air cleaner typeDry, replacable cartridgeAttrenator SPECIFICATIONTAMFORDModel 277/480V Three phaseHCI534DModel 277/480V Three phaseHCI534DAttrenator TypeFour pole, rotating fieldExcitation System2/8Number of leads12 leads, reconnectableStarb I Ligad, reconnectable2/8InsulationClass HWindings – Temperature RiseClass H (125/40° C)Enclosure II/CC34-S)IP23BearingSingle, sealedCouplingFile diseAmortisseur windingsFullVIstage regulation – no load to full load with± 1%Nation Frequency Emissions complianceWerterquirements of most industrial and commercial applications	Bore and Stroke ins (mm)	5 x 5.6 (128 x 142)	Battery capacity	1400CCA GROUP SIZE 8D
Governor         Electronic           Governor Regulation Class         ISO 8528 Part 1 Class G1           Frequency Regulation         Isochronous           Starting motor & alternator         24 Volt           Compression ratio         10.5.1           Air cleaner type         Dry, replacable cartridge           AttENATOR SPECIFICATION         Image: Compression ratio           Monufacturer         STAMFORD           Monufacturer         STAMFORD           Model 120/208V Three phase         HCI634E           Model 247/f80V Three phase         HCI634D           Model 347/f00V Three phase         HCI634D           Number of leads         12 leads, reconnectable           Stator Pitch         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H (125/40° C)           Enclosure (IEC-34-S)         Single, saeld           Coupling         Flexible disc <td>Nominal power</td> <td>764 hp</td> <td></td> <td></td>	Nominal power	764 hp		
Governor Regulation Class         ISO 8528 Part 1 Class G1           Frequency Regulation         Isochronous           Starting motor & alternator         24 Volt           Compression ratio         10.5.1           Air cleaner type         Dry replacable cartridge           AttERNATOR SPECIFICATION         Image: Compression ratio           Atternator System         STAMFORD           Model 120/2087 Three phase         HCI534E           Model 237/480V Three phase         HCI534D           Model 237/480V Three phase         HCI534D           Model 1347/680V Three phase         HCI534D           Moder 1200 X Three phase         HCI534D           Moder 1200 X Three phase         HCI534D           Number of Iads         12 leads, reconnectable	Cooling	Liquid		
Frequency Regulation         Isochronous           Starting motor & alternator         24 Volt           Compression ratio         10.5:1           Air cleaner type         Dry. replacable cartridge           Attrenator SPECIFICATION         Image: Compression ratio           Model 120/208V Three phase         HCI534E           Model 120/208V Three phase         HCI534D           Model 27/7480V Three phase         HCI534D           Attenator Type         Four pole, rotating field           Excitation System         Brushless. PMG-excited           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Fuell           Arontisseur windings         Full           Voltage regulation – no load to full load with MX341 AVR         1%           Voltage regulation Frequency Emissions compliance         Weets requirements of most industrial and commercial applications	Governor	Electronic		
Starting moro & alternator         24 Volt           Compression ratio         10.5:1           Air cleaner type         Dry, replacable cartridge           Attrenator         TERNATOR SPECIFICATION           Attrenator         STAMFORD           Model 120/208V Three phase         HCI534E           Model 277/480V Three phase         HCI534D           Atternator Type         Four pole, rotating field           Excitation System         Bushless. PMG-excited           Number of leads         12 leads, reconnectable           Stator Type         Class H (15/40°C)           Number of leads         12 leads, reconnectable           Stator Rice (IEC-34-S)         IP23           Bearing         Gingle, sealed           Coupling         Full           Voltage regulation – no load to full load with MX241 AVR         ±1%           Vitage regulation – no load to full load with         ±1%	Governor Regulation Class	ISO 8528 Part 1 Class G1		
Compression ratio10.5:1Air cleaner typeDry, replacable cartridgeAITERNATOR SPECIFICATIONSTAMFORDManufacturerSTAMFORDModel 120/208V Three phaseHCI534EModel 277/480V Three phaseHCI534DModel 347/600V Three phaseHCI534DAlternator TypeFour pole, rotating fieldExcitation SystemBrushless. PMG-excitedPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingHeixble discAmortisseur windingsFulVitage regulation – no load to full load with MX341 AVR± 1%TiF<50	Frequency Regulation	Isochronous		
Air cleaner type     Dry, replacable cartridge       AITERNATOR SPECIFICATION     STAMFORD       Manufacturer     STAMFORD       Model 120/208V Three phase     HCI534E       Model 277/480V Three phase     HCI534D       Model 347/600V Three phase     HCI534D       Model 347/600V Three phase     HCI534D       Aternator Type     Four pole, rotating field       Excitation System     Brushless. PMG-excited       Power factor     0.8       Number of leads     12 leads, reconnectable       Stator Pitch     2/3       Insulation     Class H       Windings – Temperature Rise     Class H (125/40° C)       Enclosure (IEC-34-S)     IP23       Bearing     Single, sealed       Coupling     Full       Voltage regulation – no load to full load with MX341 AVR     ± 1%       TIF     <50	Starting motor & alternator	24 Volt		
ATTERNATOR SPECIFICATION           Manufacturer         STAMFORD           Model 120/208V Three phase         HCI534E           Model 277/480V Three phase         HCI534D           Model 347/600V Three phase         HCI534D           Model 347/600V Three phase         HCI534D           Atternator Type         Four pole, rotating field           Excitation System         Brushless. PMG-excited           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Full           Amortisseur windings         ± 1%           Voltage regulation – no load to full load with MX341 AVR         ± 1%           TIF         <50	Compression ratio	10.5:1		
ManufacturerSTAMFORDModel 120/208V Three phaseHCI534EModel 277/480V Three phaseHCI534DModel 347/600V Three phaseHCI534DAttenator TypeFour pole, rotating fieldExcitation SystemBrushless. PMG-excitedPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFillVotage regulation – no load to full load with MX341 AVR± 1%Coupling<50	Air cleaner type	Dry, replacable cartridge		
Model         HCI534E           Model 277/480V Three phase         HCI534D           Model 327/600V Three phase         HCI534D           Atternator Type         Four pole, rotating field           Excitation System         Brushless. PMG-excited           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings -Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Full           Voltage regulation – no load to full load with MX341 AVR         ± 1%           TIF         <50	ALTERNATOR SPECIFICATION			
Model 277/480V Three phase         HCI534D           Model 347/600V Three phase         HCI534D           Alternator Type         Four pole, rotating field           Excitation System         Brushless. PMG-excited           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Full           Amortisseur windings         Full           Voltage regulation – no load to full load with with with 41 %         1%           TIF         <50	Manufacturer	STAMFORD		
Model 347/600V Three phase         HCI534D           Alternator Type         Four pole, rotating field           Excitation System         Brushless. PMG-excited           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Flexible disc           Amortisseur windings         Full           Voltage regulation – no load to full load with WX341 AVR         ± 1%           TIF         <50	Model 120/208V Three phase	HCI534E		
Alternator TypeFour pole, rotating fieldExcitation SystemBrushless. PMG-excitedPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings - Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windings± 1%Voltage regulation - no load to full load with WIX341 AVR± 1%TIF<50	Model 277/480V Three phase	HCI534D		
Excitation SystemBrushless. PMG-excitedPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVoltage regulation – no load to full load with MX341 AVR± 1%TIF<50	Model 347/600V Three phase	HCI534D		
Power factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVoltage regulation – no load to full load with MX341 AVR± 1%TIF<50	Alternator Type	Four pole, rotating field		
Number of leads     12 leads, reconnectable       Stator Pitch     2/3       Insulation     Class H       Windings – Temperature Rise     Class H (125/40° C)       Enclosure (IEC-34-S)     IP23       Bearing     Single, sealed       Coupling     Flexible disc       Amortisseur windings     Full       Voltage regulation – no load to full load with MX341 AVR     ± 1%       TIF     <50	Excitation System	Brushless. PMG-excited		
Stator Pitch2/3InsulationClass HWindings - Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVoltage regulation - no load to full load with MX341 AVR± 1%TIF<50	Power factor	0.8		
Insulation       Class H         Windings – Temperature Rise       Class H (125/40° C)         Enclosure (IEC-34-S)       IP23         Bearing       Single, sealed         Coupling       Flexible disc         Amortisseur windings       Full         Voltage regulation – no load to full load with MX341 AVR       ± 1%         TIF       <50	Number of leads	12 leads, reconnectable		
Windings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVoltage regulation – no load to full load with MX341 AVR± 1%TIF<50	Stator Pitch	2/3		
Enclosure (IEC-34-S)       IP23         Bearing       Single, sealed         Coupling       Flexible disc         Amortisseur windings       Full         Voltage regulation – no load to full load with MX341 AVR       ± 1%         TIF       <50	Insulation	Class H		
Bearing       Single, sealed         Coupling       Flexible disc         Amortisseur windings       Full         Voltage regulation – no load to full load with MX341 AVR       ± 1%         TIF       <50	Windings – Temperature Rise	Class H (125/40° C)		
Coupling     Flexible disc       Amortisseur windings     Full       Voltage regulation – no load to full load with MX341 AVR     ± 1%       TIF     <50	Enclosure (IEC-34-S)	IP23		
Amortisseur windings     Full       Voltage regulation – no load to full load with MX341 AVR     ± 1%       TIF     <50	Bearing	Single, sealed		
Amortisseur Windings         Voltage regulation – no load to full load with MX341 AVR         TIF         <50	Coupling	Flexible disc		
MX341 AVR         TIF       <50	Amortisseur windings	Full		
Radio Frequency Emissions compliance Meets requirements of most industrial and commercial applications	Voltage regulation – no load to full load with MX341 AVR	± 1%		
	TIF	<50		
Line harmonics 5% maximum	Radio Frequency Emissions compliance		dustrial and commercial applications	
	Line harmonics	5% maximum		





### HNI-500 T6U - <mark>500 Kw</mark>

Heavy Duty Industrial

## STANDARD FEATURES



ENCLOSURE	ENGINE SYSTEM	COOLING SYSTEM	
Rust-Proof Fastener with rubber was- hers to protect finish	Oil Drain Extension w/ Valve	Factory-Installed Radiator	
High Performance Sound-Absorbing Material	Air Cleaner	Radiator Drain Extension w/ Valve	
Gasketed Doors	Fan Guard	50/ 50 Ethylene Glycol Antifreeze	
Air Discharge Hoods for Radiators (Upwards/ Downward Pointing)	Factory Filled Oil	ALTERNATOR SYSTEM	
Lift Off Door Hinges	Battery Charging Alternator	12 leads (3-Phase, Non 600V)	
Stainless Steel Lockable Handles	GENERATOR SET	Class H Insulation Material	
Textured Polyester Powder Coat + Primer	Internal Genset Vibration Isolation	Vented Rotor 2/3 Pitch	
ELECTRICAL SYSTEMS	Separation of Circuits - High/ Low Voltage	Full Load Capacity Alternator	
Battery	Wrapped Exhaust Piping	Protective Thermal Switch	
Battery Cables	Standard Factory Testing	PMG with MX341 AVR	
Battery Tray	2 Year / 2,000 Hour Limited Warranty		
DSE 7410 Controller			

# CONTROL SYSTEM



## DSE7410 MKII

- Charge alternator failure alarm
- 4-Line back-lit LCD text display
- Front panel editing with PIN protection
- Customizable status screens
- Power save mode
- 11 configurable inputs
- 8 configurable outputs
- Flexible sensor inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)

#### HIMOINSA POWER SYSTEMS, INC.

16600 South Theden Street, Olathe, KS 66062 Tel: 913 495 5557 | Fax: 913 495 5575 | **www.hipowersystems.com** 

- "Protections disabled" feature
- kW protection
- Reverse power (kW) protection
- LED and LCD alarm indication
- Power monitoring (kWh, kVAr, kVAh, kVArh)
- Load switching (load shedding and dummy load outputs)
- Independent Earth Fault trip
- Fuel usage monitor and low fuel alarms
- Configurable display languages
- User selectable simultaneous RS232, RS485 & Ethernet communications
- MODBUS RTU & TCP support

- Configurable MODBUS pages
- Fully configurable via DSE
- Configuration Suite PC software
- Data logging to assist with fault

#### finding

• PLC editor allows user configurable

funcions to meet specific application

#### requirements

- License-free PC software
- Multiple date and time scheduler
- DSENet® expansion compatible

DSE2133 DSE2152 DSE2157 DSE2510/20	MODBUS CAN CAN CAN CAN CAN CAN			<u> </u> X •	卢	<b>:1</b> #	i i i
DSENET® EXPANSION	RS232 AND RS485	USB USB PORT HOST	CONFIGURABLE INPUTS	DC OUTPUTS	ANALOGUE INPUT	EMERGENCY STOP	DC POWER SUPPLY 8-35V
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	10/20 MKI CE	I					DEUTZ ISUZU PERKINS CATERPILLAR MTU VOLVO CUMMINS SCANIA AND MORE
MAINS (UTILITY) SENSING DSE7420 MKII ONLY	NIC VOLT FREE OUTPUT	GENERATOR/ LOAD CURRENT	NIO VOLT FREE OUTPUT	GENERATOR SENSING	CHARGE ALTERNATOR	FUEL & CRANK OUTPUTS (Flexible with CAN)	ELECTRONIC ENGINES & MAGNETIC PICK-UP
VOLTS	ţ,	<del>l</del> @l	ŗ.		D+ W/L	ļŗ	<b>ഹം അം</b> ട്ട്
1ph 2ph 3ph N		1ph 2ph 3ph EN		1ph 2ph 3ph N			

Heavy Duty Industrial

# **CONFIGURABLE OPTIONS**



ENCLOSURE	ENGINE SYSTEM	CIRCUIT BREAKER OPTIONS
Open Skid	Water Jacket Heater (with Isolation Valves)	LSI Electronic Trip 80% and 100% Rated
Level 1 Sound Attenuated	ELECTRICAL SYSTEM	LS/I Electronic Trip 80% and 100% Rated
Level 2 Sound Attenuated	Battery Warmer	LSIG Electronic Trip 80% and 100% Rated
Level 1 Sound Attenuation (Aluminum Enclosure)	Battery Charger	Thermo-Magnetic Trip 80% and 100% Rated
Level 2 Sound Attenuation (Aluminum Enclosure)	10 Positions Load Center (100 Amps)	Second Main Line Circuit Breaker
ALTERNATOR SYSTEM	Remote ESTOP with N3R Break Glass	Shunt Trip
Anti-condensation heater	120V GFCI Receptacle	Auxiliary Contacts for MLCB
Rheostat	10A Relay Common Alarm	Auxiliary Contacts for Secondary Breaker
PMG with MX321 AVR or DSE A109	10A Run Relay	Mechanical Lugs
CONTROL SYSTEM	Control Panel Heater	GENERATOR SET
Spare Inputs (x4) / Output (x4)	8, 16, & 24 Leds Remote Annunciator on Surface Mounted Box	Extended Test
DSE2130 - DSENet Input Expansion Module	DSE8610 Parallel Controller + Motorized Breakers	Extended Warranty
DSE2157 - DSENet Output Expansion Module	AC/DC Enclosure Lighting Kit + Timer	Custom Testing
Remote Display Module	Enclosure Heater	NFPA110 Kit
		Fuel System Ontions (Natrual Gas, J.P/I.PV, Dual Fu

Fuel System Options (Natrual Gas, LP/LPV, Dual Fuel)

# **ENGINEERED OPTIONS**

ENCLOSURE	ALTERNATOR SYSTEM	CIRCUIT BREAKER OPTIONS
Air Outlet Gravity Dampers	Bearing RTD's on Alternator	3rd Breaker System
Air Inlet Motorized Dampers (Only with Level 2)	Main Stator RTD's on Alternator (2 per Phase)	Shunt Trip on 3rd Breaker
ENGINE SYSTEM	Tropical Coating	Auxiliary Contact on 3rd Breaker
Fluid Containment Pan	Alternator Up-sizing	ELECTRICAL SYSTEM
		240V Twist Lock Receptacle

Codes and Standards Compliances used where applicable

ANSI

ÉGSA

# HNI-500 T6U - <mark>500 Kw</mark>

Heavy Duty Industrial



# **OPERATING DATA**

FUEL SYSTEM	
Fuel type	Natural Gas
Fuel supply line - inlet	2" NPTF
Natural gas fuel supply pressure	10PSI

FUEL CONSUMPTION - NATURAL GAS (Measured at genset fuel inlet, downstream of any dry fuel or filter accessories)	m3/h	ft3/h	BTU/h
100% load	135	4760	4,886,150
75% load	102	3570	3,664,605
50% load	68	2380	2,443,070
25% load	34	1190	1,221,535
FUEL CONSUMPTION - LPG (Measured at genset fuel inlet, downstream of any dry fuel or filter accessories)	lb/h	gal/h	BTU/h
100% load	N/A	N/A	
75% load	N/A	N/A	
75% load 50% load	N/A N/A	N/A N/A	

COOLING SYSTEM		
Engine cooling air flow	cfm (m³/min)	39,995 (1,133)
Alternator cooling flow	cfm (m³/min)	2202 (62.4)
Combustion air flow	cfm (m³/min)	917 (26)
Total cooling air flow (engine+alternator+combustion)	cfm (m³/min)	43,114 (1223.4)
Total cooling capacity	US gallons (liters)	51 (193)
Max Ambient Operating Temperature	°F (°C)	114(46)

# Starting Capabilities (sKVA)

		480V			208/240V			600V							
	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%
Standard	450	720	1040	1375	1750	400	650	925	1230	1580	400	620	890	1180	1520
Upsized	550	850	1200	1600	2070	450	725	1020	1380	1760	440	680	980	1300	1660

# **Circuit Breaker**

	277/480V	120/208V	120/240V	347/600V
Make and model	ABB T6N800TW	ABB T8VBD3GC00000XX	ABB T8VBCFC0000000X	ABB T6N600TW
Amps	800A	2000 A	1600 A	600 A

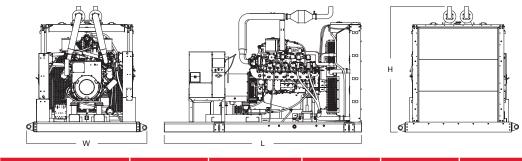




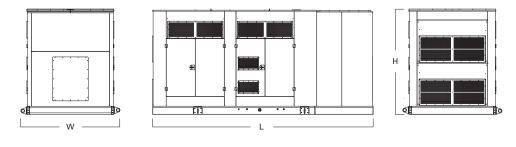


# DIMENSIONS, WEIGHTS & SOUND LEVELS

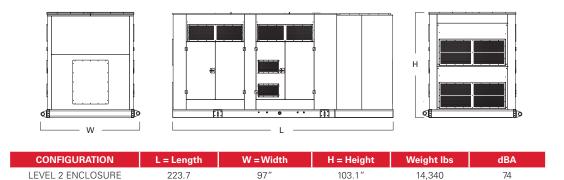




CONFIGURATION	L = Length	W = Width	H = Height	Weight Ibs	dBA
OPEN SET	158.7″	97″	100.8″	11,140	TBD



CONFIGURATION	L = Length	W = Width	H = Height	Weight Ibs	dBA
LEVEL 1 ENCLOSURE	223.7	97″	103.1″	13,870	79



\* All measurements are approximate and for estimation purposes only. Weights are without fuel tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.



Intertek Conforms to UL STD 2200 Certified to CSA STD C22.2#100 Certified to CSA STD C22.2#14

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**REV-02** 



