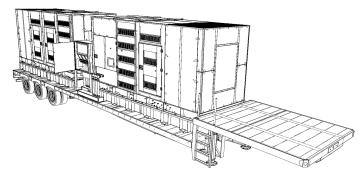
# HRVW-1250 T4F

60Hz RENTAL/PRIME/STANDBY POWER



#### 60 Hz ℓ ► M P)

#### 1000kW/60Hz/Rental/1800RPM

VOLTAGE VAC	120/208V		139/240V		277/480V		347/600V**	
RATING	Prime	Standby	Prime	Standby	Prime	Standby	Prime	Standby
PHASE	3		3		3		3	
PF	0.8		0.8		0.8		0.8	
HZ	60		60		60		60	
KW	1000	1100	1000	1100	1000	1100	1000	1100
KVA	1250	1360	1250	1360	1250	1360	1250	1360
AMPS	3468	3774	3006	3272	1504	1636	1204	1308
SKVA@30% VOLTAGE DIP	2070		2070		2070		N/A	
MLCB (AMPS)	2000 (x2)		2000 (x2)		2000 (×2)		600 (×2)	

\* Photo depicts a typical model but may not include options such as trailer.

#### Description

HIPOWER<sup>®</sup> rental generators are an efficient, reliable and versatile source of mobile electrical power. Designed to operate in the most extreme working conditions. All HIPOWER<sup>®</sup> Rental Generators combine an innovative design and the use of high quality materials that provide the user with the most dependable power that you can rely on for non-stop power with easy to operate controls.

Powered by a radiator-cooled, industrial VOLVO PENTA Diesel engine, which meets current Environmental Protection Agency (EPA) TIER 4 Final non-road exhaust emission regulations, driving a single bearing, four-pole, three-phase alternator, with IP23 protection. The Prime Power kVA rating for generator set is given with a 105 degree °C alternator winding temperature rise.

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

VOLVO PENTA Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection 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, rotating field, self-excited, self-ventilated, 12-wire reconnectable, 60Hz brushless alternator with permanent magnetic generator (PMG), with Class F insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads.

Certification: ISO 8528-5.

**Fuel Tank:** Environmentally friendly steel base welded sub-base fuel tank with internal filling system and 110% containment capability for any diesel fuel, coolant or engine oil spills. Easy access for maintenance activities.

**Enclosure:** Fully sound attenuated enclosure, fabricated in 11-gauge steel, powder coated with finish that exceeds 1400-hr salt spray test, curved edges, minimum outside fasteners and single point lift. Ample layer of durable Rockwool sound insulating material placed all around the inside of the container, doors and ducting with metal retaining frames. It can be cleaned with high-pressure water and is oil and fire resistant. Vertical air discharge for quiet operation. Wide steel lockable access doors with rubber seals, easy access for maintenance and service activities, lift off stainless steel hinges, corrosion resistant hardware and fasteners.

**Fuel Filtration**: Standard and secondary water separator with visible level on fuel filters

**Voltage Change Over Board:** Two-position, manual change over board. 120/208 and 277/480V 3-phase.

**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. Load Connections: Covered distribution panel for easy access to cable power outlets, receptacles, lugs and Camloks.



### APPLICATION DATA

ModifundVOLVO PENTAModelVOLVO PENTAAnothingVolvo PENTAPredentingNorter ConstructionTypeLanotypeNorter ConstructionNorter ConstructionApparationNorter ConstructionSubscructionScalandonNorter ConstructionScalandonSubscructionScalandon	ENGINE SPECIFICATION	
PA entifaidTer 4 FINALCanabita speed1800 rpmTypeDecal. 4:stokeTypeDecal. 4:stokeApirationDirect 4:stokeApirationCanabita 4:stokeOpder at angementDefanotOpder at attentsDefanotOpder at attentsDefanotOpder at attentsDefanotOpder at attentsDefanotOpder at attent at a stoke attent attent at a stoke attent	Manufacturer	VOLVO PENTA
Checkshaft speed1.800 rpmTypeDesel, 4.970/eInjectionDirectAppriationTurbochragedNumber of Cylinders6Cylinder arrangementInlineDisplacement CID (itera)567/65 (14/x 169)Desend Stroke firstmin567/65 (14/x 169)Sore and Stroke firstmin567/65 (14/x 169)CoolingUpdidGowernorFederalGowernor Flegulation567/65 (14/x 169)Gowernor Flegulation Class509/28 Phrt 1 Class G3Frequency Regulation16/01Gowernor Flegulation Class509/28 Phrt 1 Class G3Frequency Regulation16/01Gowernor Flegulation Class16/01Frequency Regulation16/01Stratting motor & alternatur12/01Compression ratio400/100/01Ar cleaner type18/81Exhaust temp at full lead degrees +E (+C)79/14/23Max, Exhaust temp at full lead degrees +E (+C)79/14/23Cooling af flow -e.u.ft./min (eu.m/min)202/07/132Arterator cooling flow -e.u.ft./min (eu.m/min)18/0Cooling af flow -e.u.ft./min (eu.m/min)18/0Cooling af flow reque + sterator + contupotion - cu.ft./min (eu.m/min)18/0Cooling af flow reque + sterator + contupotion - cu.ft./min (eu.m/min)18/0Cooling af flow reque + sterator + contupotion - cu.ft./min (eu.m/min)18/0Cooling af flow reque + sterator + contupotion - cu.ft./min (eu.m/min)11/02Cooling af flow reque + sterator + contupotion - cu.ft./min (eu.m/min)11/02<	Model	TWD 1672 GE
TypeDesk 4 strokeInjectionPrectAspirationVincobargedAspirationPrectAspirationPrectobargedOutmoor of QindarsBallDisplacement CD (iters)Ball Stall StallDere and Stroke ins (imm)BAT A Stall HA 1805)Pore and Stroke ins (imm)BAT A Stall HA 1805)CooringIsed Stall Stall StallCooringIsed Stall	EPA certified	Tier 4 FINAL
netionDirectAspintionTurbochargiedAspintionTurbochargiedNumber of Cylinders6Cylinder arangenentInlineDispacement CID liters)983.8 16.12)Bore and Stroke ins Imm)5.67 x 6.5 (164 x 165)Nominal power786 HPCoolingLiquidGovernor Regulation ClassIso 8028 Part 1 Class G3Grewenor Regulation ClassIso 8028 Part 1 Class G3Frequency Regulation ClassIso 8028 Part 1 Class G3Frequency Regulation ClassIso 8028 Part 1 Class G3Grewenor Regulation ClassIso 8028 Part 1 Class G3Frequency Regulation ClassIso 8028 Part 1 Class G3Grewenor Regulation ClassIso 8028 Part 1 Class G3Frequency Regulation ClassIso 8028 Part 1 Class G3Ar cleaner typeHeavy dury - single cartridgeEnhaust gas flow cu. furmute (cu. m. /minute)1028 (114)Max. Emmissible back pressure - ins H20 (RPA)2028 (114)Max. permissible back pressure - ins H20 (RPA)2020 (1921)Atternation colling flow - cu. ff.min (cu. m/mini)1020 (1921)Atternation colling part flow - cu. ff.min (cu. m/mini)2020 (1921)Table cooling gar flow ver, ff.min (cu. m/mini)2020 (1921)Table cooling parts - U. Signions filters)11142Out a coaperty - U. Signions filters)12.7 (48)Out a coaperty - U. Signions filters)21.7 (48)Out a coaperty with filter - U. Signions filters)21.7 (48)Oli consumption at fullation40.7 (40) conventional DH4 (refer	Crankshaft speed	1,800 rpm
AppraisionTurborbargedNumber of Cylinders6Cylinder arangementInlineDisplacement CD liters)863 91(612)Bear and Schole na (mm)557 x 8.5 (144 x 185)Normial power299 HPCoolingLiquidGovernor Fogulation ClassElectronicRequency RegulationSto 552 Part 1 Class G3Frequency Regulation ClassFte Class G3Frequency Regulation ClassFte Class G3Frequency Regulation Class G3Sto 552 Part 1 Class G3Frequency Regulation Class G3Sto 552 Part 1 Class G3Frequency Regulation Store Ga	Туре	Diesel, 4-stroke
Number of Cylinders6Cylinder arangementInlineDisplacement CD (liters)983.9 (16.12)Bore and Stroke ins fmm)57.5 (16.4 106)Normal power796 HPCoolingLaudGovernor Regulation Class100 822 Part 1 Class G2Frequency RegulationIscattonousStarting moor & alternator12 voltConfession ratio16.8:1Arr clasm frageHeavy dury-single cartridgeExhaust gas flow cut furminute (cum /minute)405 (14.9)Max: Exhaust term par full load degrees "F (°C)781 (19.2)Max: permissible back pressure- ins H2O (IRA)780 (19.2)Coulding capacity - US galons (iters)30.207 (19.2)Atternator200 (19.1)Total cooling afflow - cut furmin (cum /minute)202 (19.2)Atternator cooling flow y cut furmin (cum /minute)202 (19.2)Coulding capacity - US galons (iters)30.207 (19.2)Atternator cooling flow y cut furmin (cum /minute)202 (19.2)Total cooling afflow - cut furmin (cum /minute)202 (19.2)Coulding capacity - US galons (iters)53.3 (80)Total cooling afflow - cut furmin (cum /minut)25.3 (80)Oll pan capacity - US galons (iters)11.142)Oll pan capacity - US galons (iters)12.7 (48)Oll cooler[cui qudRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oll cooler[cui dictarsumptionOll consumption at full load21.9% of fuel consumptionOll consumption at full loa	Injection	Direct
Content arrangement         In-line           Displacement CD (itters)         983.9 (18.12)           Bore and Stoke ins Imm)         567 x 6.5 (144 x 165)           Nominal power         796 HP           Cooling         Liquid           Governor Regulation Class         Isochronous           Stoke ins Imm)         Isochronous           Governor Regulation Class         Isochronous           Terguery Regulation Class         Isochronous           Compression ratio         16.81.1           Art cleaner type         Heavy dury - single cartridge           Compression ratio         709.114.2           Max. Exhaust teem at full load degrees = F {C}         739.423.1           Max. Exhaust teem at full load degrees = F {C}         739.423.1           Max. Exhaust teem at full load degrees = F {C}         739.423.1           Max. Exhaust teem at full load degrees = F {C}         739.423.1           Max. Exhaust teem at full load degrees = F {C}         739.423.1           Atternator cooling air flow -cu. fl./min (cu. m/min)         700.0000000000000000000000000000000000	Aspiration	Turbocharged
Displacement CD litters         983 9 16 12)           Bore and Stroke ins fmm)         567 x 65 1144 x 165)           Nominal power         796 HP           Cooling         Liquid           Governor Population Class         Iscottomous           Frequency Regulation         Iscottomous           Starting motor & alternator         Iscottomous           Compression ratio         16.81           Air clean type         Heavy duty single cattidge           Max. Exhaust temp at full load degrees = F (*C)         793 4230           Max. Exhaust temp at full load degrees = F (*C)         793 4230           Max. Exhaust temp at full load degrees = F (*C)         793 4230           Max. Exhaust temp at full load degrees = F (*C)         793 4230           Max. Exhaust temp at full load degrees = F (*C)         793 4230           Max. Exhaust temp at full load degrees = F (*C)         793 1430           Max. Exhaust temp at full load degrees = F (*C)         793 1430           Max. Exhaust temp at full load degrees = F (*C)         793 1430           Max. Exhaust temp at full load degrees = F (*C)         100 1690           Alternator cooling af flow (engl = Alternator < combustion) - e.u. fl/min (eu. m/min)	Number of Cylinders	6
Bor and Stock ins firmin567x 85 (144 x 165)Nominal power796 HPCoolingLiquidGovernorElectronicGovernor RegulationISO 8282 Part I Class G3Frequency RegulationIsochronousStarling motor & alternatorIsochronousCompression ratioAsternatorAr cleaner typeHeavy duty-single cartridgeExhaust ges flow cu. ft./minute (cum /minute)4026 (114)Max. permissible back pressure - ins H20 (ER)709 (12)Couling aft flow - cu. ft./min (cu. m/min)90,207 (912)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19)Caterator cooling aft flow - cu. ft./min (cu. m/min)120,000 (19) <trt< td=""><td>Cylinder arrangement</td><td>In-line</td></trt<>	Cylinder arrangement	In-line
Nominal power786 HPCoolingLiquidGovernorElectronicGovernor Regulation ClassElectronicFrequency Regulation ClassElocotronousStarting motor & alternatorElocotronousCompression ratio16.8.1Air cleaner typeHeavy duty - single cartridgeExhaust gas flow cu. ft./minute (cu.m./minute)4025 (114)Max. Exhaust temp at full load degrees °F F C)793 (423)Max. Exhaust temp at full load degrees °F F C)793 (423)Max. permissible back pressure - ins H2O (kPA)76 (19)COULE SYSTEM100 (199)Coloing flow - cu. ft./min (cu. m/min)700 (190)Total cooling if flow - cu. ft./min (cu. m/min)100 (199)Total cooling flow - cu. ft./min (cu. m/min)114 (19)Ui pan capacity - US galions (fiters)12.7 (48)Oli pan capacity - US galions (fiters)12.7 (48)Oli cooler12.9 (194)Oli consumption at full load6.1 (194) consumptionOli consumption at full load6.1 (194) consumption <td< td=""><td>Displacement CID (liters)</td><td>983.9 (16.12)</td></td<>	Displacement CID (liters)	983.9 (16.12)
Cooling         Liquid           Cooling         Liquid           Governor         Electronic           Covernor Regulation Class         Iso St828 Port 1 Class G3           Frequency Regulation         Isochronous           Starting motor & atternator         12 volt           Compression ratio         6.8:1           Ari cleaner type         Heavy duty - single cartridge           Exhaust gas flow cu. ft./minute (cu.m./minute)         4025 (114)           Max. Exhaust temp at full load degrees " F (°C)         783 (423)           Max permissible back pressure - ins H2O (kPA)         780 (791)           Colling air flow - cu. ft./min (cu.m/min)         780 (271)           Total cooling air flow - cu. ft./min (cu.m/min)         780 (271)           Total cooling air flow - cu. ft./min (cu.m/min)         100 (271)           Total cooling air flow - cu. ft./min (cu.m/min)         100 (271)           Total cooling air flow - cu. ft./min (cu.m/min)         100 (271)           Total cooling air flow - cu. ft./min (cu.m/min)         100 (271)           Total cooling air flow - cu. ft./min (cu.m/min)         100 (271)           Total cooling air flow (angine + alternator + combustion) - cu. ft./min (cu.m/min)         100 (271)           Total cooling air flow (angine + alternator + combustion) - cu. ft./min (cu.m/min)         100 (271)	Bore and Stroke ins (mm)	5.67 × 6.5 (144 × 165)
CovernorElectronicGovernor Regulation ClassISO 8528 Part 1 Class G3Frequency RegulationIsochronousStarting motor & alternator12 voltCompression ratio16.8:1Air cleaner typeHeavy duty - single cartridgeExhaust gas flow cu. ft./minute (cu. m./minute)4025 (114)Max. Exhaust temp at full load degrees °F (°C)93 (423)Max. partisible back pressure - ins H2O (KPA)930 (423)COOLING SYSTEM2000 (199 SYSTEM)Engine cooling air flow - cu. ft./min (cu. m/min)30.207 (912)Atternator cooling flow - cu. ft./min (cu. m/min)110 Cooling air flow - cu. ft./min (cu. m/min)Total cooling air flow - cu. ft./min (cu. m/min)1200 (59)Total cooling are flow - cu. ft./min (cu. m/min)1200 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (59)Total cooling are flow - cu. ft./min (cu. m/min)120 (50)Oil pan capacity - US gallons (liters)12.1 (42)Oil pan capacity - US gallons (liters)20.1 (60 (40 conventional DH4 (refe	Nominal power	796 HP
Governor Regulation Class G3         ISO 8528 Part 1 Class G3           Frequency Regulation         Isodronous           Starting motor & alternator         12 volt           Compression ratio         16.8.1           Air cleaner type         Heavy duty - single carridge           Exhaust gas flow ou, ft /minute (ou.m. /minute)         4025 (114)           Max. Exhaust temp at full load degrees °F (°C)         793 (423)           Max. parnissible back pressure - ins H2O (kPA)         76 (19)           COULING SYSTEM         2100 (59)           Engine cooling air flow - ou. ft /min (cu. m/min)         30.207 (912)           Alternator cooling flow - ou. ft /min (cu. m/min)         2100 (59)           Total cooling air flow - ou. ft /min (cu. m/min)         114 (20)           Total cooling air flow - ou. ft /min (cu. m/min)         120 (59)           Total cooling air flow - ou. ft /min (cu. m/min)         120 (59)           Total cooling air flow - ou. ft /min (cu. m/min)         120 (50)           Total cooling air flow - ou. ft /min (cu. m/min)         120 (50)           Total cooling air flow - ou. ft /min (cu. m/min)         120 (50)           Total cooling air flow - ou. ft /min (cu. m/min)         120 (50)           Total cooling air flow (au. ft mestor + ft (°C)         121 (45)           Oil pan capacity - US galons (ftrers) <td>Cooling</td> <td>Liquid</td>	Cooling	Liquid
Frequency RegulationIsochronousStarting motor & alternator12 voltCompression ratio16.8.1Air cleaner typeHeavy duty - single cartridgeExhaust gas flow ou. ft./minute (cu.m. /minute)4025 (114)Max. Exhaust temp at full load degrees ° F (°C)793 (423)Max, permissible back pressure - ins H2O (kPA.)76 (19)COLING SYSTEM2100 (59)Engine cooling air flow - cu. ft./min (cu. m/min)30207 (912)Alternator cooling flow - cu. ft./min (cu. m/min)700 (59)Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)110 (200 (59)Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)25.3 (96)Max. Operating Temperature ° F (°C)13 (45)Oul pan capacity - US gallons (liters)11/ (42)Oil pan capacity - US gallons (liters)11/ (42)Oil pan capacity with filter - US gallons (liters)27.4 (8)Oil consumption at full load0.1% of fuel consumptionOil consumption at full load0.1% of fuel consumptionOil pressure – psi (kPA)58 (399)EXENCELECTRICAL SYSTEM24 voltStarting motor voltage24 voltStarting motor voltage24 voltGui Carking Amps - minimum300 Amp x 2Batery darging Alternator100 Amp X 2		Electronic
Starting motor & alternator         12 volt           Compression ratio         16.8:1           Air cleaner type         Heavy duty - single cartridge           Exhaust gas flow cu. ft./minute (cu.m./minute)         4025 (114)           Max. Exhaust temp at full load degrees "F (°C)         793 (423)           Max. permissible back pressure - ins H2O (kPA )         76 (19)           COLING SYSTEM         700 (59)           Engine cooling air flow - cu. ft./min (cu.m/min)         30,207 (912)           Alternator cooling flow - cu. ft./min (cu.m/min)         2100 (59)           Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu.m/min)         TBD           Total cooling capacity - US gallons (liters)         25 3 (96)           Max. Operating Temperature °F (°C)         113 (45)           UBRICATION SYSTEM         111 (42)           Oil pan capacity - US gallons (liters)         12.7 (48)           Oil pan capacity - US gallons (liters)         25.4 (90)           Oil cooler         Liquid           Recommended lubricating oil grade         SAE 100V-40 conventional DH4 (refer to owners manual)           Oil consumption at full load         <0.1% of fuel consumption	Governor Regulation Class	ISO 8528 Part 1 Class G3
Compression ratio         6.8:1           Compression ratio         6.8:1           Air cleaner type         Heavy duty - single cartridge           Exhaust gas flow cu. ft/minute (cu.m./minute)         4025 (114)           Max. Exhaust temp at full load degrees °F (°C)         793 (423)           Max. permissible back pressure - ins H2O (kPA)         76 (19)           COULING SYSTEM         700 (59)           Engine cooling air flow - cu. ft/min (cu.m/min)         30,207 (912)           Atternator cooling flow - cu. ft/min (cu.m/min)         7BD           Total cooling air flow (engine + alternator + combustion) - cu. ft/min (cu.m/min)         TBD           Total cooling capacity - US galons (liters)         25.3 (96)           Max. Operating Temperature °F (°C)         113 (45)           UBRICATION SYSTEM         1142)           Oil pan capacity - US galons (liters)         12.7 (48)           Oil cooler         Liquid           Recommended lubricating oil grade         SAE 10W-40 conventional DH4 (refer to owners manual)           Oil consumption at full load         <0.1% of fuel consumption	Frequency Regulation	Isochronous
Air cleaner type         Heavy duty - single cartridge           Air cleaner type         4025 (114)           Max. Exhaust temp at full load degrees °F (°C)         793 (423)           Max. parmissible back pressure - ins H2O (kPA)         76 (19)           COLING SYSTEM         30,207 (912)           Coll and flow - cu. ft./min (cu. m/min)         30,207 (912)           Alternator cooling air flow - cu. ft./min (cu. m/min)         2100 (59)           Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)         TDD           Total cooling air flow solitiers)         25.3 (96)           Max. Operating Temperature °F (°C)         11.1 (42)           Oil pan capacity - US gallons (liters)         12.7 (48)           Oil pan capacity - US gallons (liters)         12.1 (42)           Oil cooler         Liquid           Recommended lubricating oil grade         AE 10W-40 conventional DH4 (refer to owners manual)           Oil consumption at ful load         c.1 % of fuel consumption           Oil pressure - psi (kPA)         88 (399)           ENTIFE ELECTRICAL SYSTEM         Starting motor voltage           Cold Cranking Amps - minimum         300 Amp X 2           Starting motor voltage         44 volt	Starting motor & alternator	12 volt
Exhaust gas flow cu. ft./minute (cu.m. /minute)4025 (114)Max. Exhaust temp at full load degrees °F (°C)793 (423)Max. permissible back pressure - ins H2O (kPA)703 (423)COLING SYSTEM6 (19)Coling air flow - cu. ft./min (cu. m/min)30,207 (912)Alternator cooling flow - cu. ft./min (cu. m/min)2100 (59)Total cooling ar flow - cu. ft./min (cu. m/min)TBDTotal cooling argenzity - US gallons (liters)25.3 (96)Max. Operating Temperature °F (°C)113 (45)Oil pan capacity - US gallons (liters)12.7 (48)Oil pan capacity - US gallons (liters)2.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Compression ratio	16.8:1
Max. Exhaust temp at full load degrees °F (°C)         793 (423)           Max. permissible back pressure - ins H2O (kPA)         76 (19)           COLING SYSTEM         30,207 (912)           Engine cooling air flow - cu. ft./min (cu. m/min)         30,207 (912)           Atternator cooling flow - cu. ft./min (cu. m/min)         2100 (59)           Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)         TBD           Total cooling capacity - US gallons (liters)         25.3 (96)           Max. Operating Temperature °F (°C)         113 (45)           CUBRICATION SYSTEM         U           Oil pan capacity - US gallons (liters)         12.7 (48)           Oil pan capacity - US gallons (liters)         12.7 (48)           Oil cooler         Liquid           Recommended lubricating oil grade         0.1 % of fuel consumption           Oil consumption at full load         <0.1 % of fuel consumption	Air cleaner type	Heavy duty - single cartridge
Max. permissible back pressure - ins H2O (kPA)76 (19)COLING SYSTEMEngine cooling air flow - cu. ft/min (cu. m/min)30.207 (912)Alternator cooling flow - cu. ft/min (cu. m/min)2100 (59)Total cooling air flow (engine + alternator + combustion) - cu. ft/min (cu. m/min)TBDTotal cooling capacity - US gallons (liters)25.3 (96)Max. Operating Temperature ° F (°C)113 (45)LURRICATION SYSTEMOil pan capacity - US gallons (liters)Oil pan capacity vith filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load<0.1 % of fuel consumption	Exhaust gas flow cu. ft./minute (cu.m. /minute)	4025 (114)
COOLING SYSTEMEngine cooling air flow - cu. ft./min (cu. m/min)30.207 (912)Alternator cooling flow - cu. ft./min (cu. m/min)2100 (59)Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)TBDTotal cooling capacity - US gallons (liters)25.3 (96)Max. Operating Temperature ° F (° C)113 (45)LUBRICATION SYSTEMOil pan capacity - US gallons (liters)12.7 (48)Oil pan capacity with filter - US gallons (liters)25.4 (90/40)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Max. Exhaust temp at full load degrees °F (°C)	793 (423)
Engine cooling air flow - cu. ft,/min (cu. m/min)30,207 (912)Alternator cooling flow - cu. ft,/min (cu. m/min)100 (59)Total cooling air flow (engine + alternator + combustion) - cu. ft,/min (cu. m/min)TBDTotal cooling capacity - US gallons (liters)25.3 (96)Max. Operating Temperature °F (°C)113 (45)LUBRICATION SYSTEMOil pan capacity - US gallons (liters)12.7 (48)Oil pan capacity vith filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Max. permissible back pressure - ins H2O (kPA )	76 (19)
Alternator cooling flow - cu. ft./min (cu. m/min)2100 (59)Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)TBDTotal cooling capacity - US gallons (liters)25.3 (96)Max. Operating Temperature ° F (°C)113 (45) <b>LUBRICATION SYSTEMUIDRICATION SYSTEM</b> Oil pan capacity - US gallons (liters)12.7 (48)Oil pan capacity with filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load<0.1% of fuel consumption	COOLING SYSTEM	
Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)TBDTotal cooling capacity - US gallons (liters)25.3 (96)Max. Operating Temperature ° F (°C)113 (45)LUBRICATION SYSTEMOil pan capacity - US gallons (liters)11.1 (42)Oil pan capacity with filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Engine cooling air flow - cu. ft./min (cu. m/min)	30,207 (912)
Total cooling capacity - US gallons (liters)25.3 (96)Max. Operating Temperature ° F (°C)113 (45)LUBRICATION SYSTEM1.1 (42)Oil pan capacity - US gallons (liters)12.7 (48)Oil pan capacity with filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Alternator cooling flow - cu. ft./min (cu. m/min)	2100 (59)
Max. Operating Temperature °F (°C)113 (45)LUBRICATION SYSTEMOil pan capacity - US gallons (liters)1.1. (42)Oil pan capacity with filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load<0.1% of fuel consumption	Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)	TBD
LUBRICATION SYSTEMOil pan capacity - US gallons (liters)11.1 (42)Oil pan capacity with filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Total cooling capacity - US gallons (liters)	25.3 (96)
Oil pan capacity - US gallons (liters)11.1 (42)Oil pan capacity with filter - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load<0.1% of fuel consumption	Max. Operating Temperature °F (°C)	113 (45)
Oil pan capacity - US gallons (liters)12.7 (48)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	LUBRICATION SYSTEM	
Dil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Oil pan capacity - US gallons (liters)	11.1 (42)
Recommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil consumption at full load< 0.1% of fuel consumption	Oil pan capacity with filter - US gallons (liters)	12.7 (48)
Notes in the construction of greater         Oil consumption at full load       < 0.1% of fuel consumption	Oil cooler	Liquid
Oil pressure – psi (kPA)58 (399)ENGINE ELECTRICAL SYSTEM24 voltStarting motor voltage24 voltCold Cranking Amps - minimum300 Amp X 2Battery charging AlternantorN/A	Recommended lubricating oil grade	SAE 10W-40 conventional DH4 (refer to owners manual)
ENGINE ELECTRICAL SYSTEM       Starting motor voltage     24 volt       Cold Cranking Amps - minimum     300 Amp X 2       Battery charging Alternantor     N/A	Oil consumption at full load	< 0.1% of fuel consumption
Starting motor voltage24 voltCold Cranking Amps - minimum300 Amp X 2Battery charging AlternantorN/A	Oil pressure – psi (kPA)	58 (399)
Cold Cranking Amps - minimum     300 Amp X 2       Battery charging Alternantor     N/A	ENGINE ELECTRICAL SYSTEM	
Battery charging Alternantor N/A		24 volt
	Cold Cranking Amps - minimum	300 Amp X 2
	Battery charging Alternantor	N/A
		225 Amps X 2



#### **APPLICATION DATA**

FUEL SYSTEM		
Recommended fuel	# 2 - ULSD	
- Fuel supply line, min. ID mm(in.)	9.5 (3/8")	
Fuel return line,min. ID, mm (in.)	9.5 (3/8")	
Max. lift, fuel pump, type, m (ft)	TBD	
-uel filter	Secondary 5 Microns @ 98% Efficiency	
DEF Tank capacity - US Gal.	42.3	
FUEL and DEF COMPSUMTION	FUEL (Prime Power Rating) - per unit	DEF (% of fuel consumption)
100% load – US gallons/hour (L/hr)	27.9 (105.6)	7.1 %
75% load - US gallons/hour (L/hr)	25 (94.6)	TBA
50% load - US gallons/hour (L/hr)	17.3 (65.4)	TBA
25% load - US gallons/hour (L/hr)	9.9 (37.4)	TBA
ALTERNATOR SPECIFICATION		
Vanufacturer	STAMFORD	
Model	HCI 534 E with PMG	
/oltages	120/208V - 277/480	
Alternator Type	Four pole, rotating field	
Excitation System	Brushless. PMG-excited	
Power factor	0.8 / 1.0	
Number of leads	12 leads, reconnectable	
Stator Pitch	2/3	
nsulation	Class H	
Nindings – Temperature Rise	Class F (105/40° C)	
Enclosure (IEC-34-S)	IP23	
Bearing	Single, sealed	
Coupling	Flexible disc	
Amortisseur windings	Full	
/oltage regulation – no load to full load with MX341 AVR	± 1%	
ſIF	<50	
Radio Frequency Emissions compliance	Meets requirements of most industrial a	and commercial applications
ine harmonics	5% maximum	
STANDARD ACCESSORIES		
Air Filter Restriction Indicator	• Leak Proof Tray	
Leakage Detection Sensor	<ul> <li>MLCB Auxiliary Contacts</li> </ul>	
Battery Switch	Shunt Trip on MLCB	
	<ul> <li>2 Positions Voltage Change Over Board</li> </ul>	d
Crankcase Ventilation Filter     Oil/Coolant Drain Extention	PMG Excitation on Alternator	

•Distribution power panel \*See image RH back-page -NEMA 3R/IP67 0.09" aluminum panel, black powder coated, weather proof rated; 2 x15A 125V NEMA 5-15P Shore line connector; 6 sets 400A single pin Camlocks rated 400A with snap covers; color coded Camlocks 3Ø - 5W black, red blue, white & green; pad lockable 1/4 turn door access with cable trap; auxiliary bus bars with mechanical lugs; 1 single barrel lug per phase; mechanical lugs up to 2 x 600MCM cable

OPTIONAL ACCESSORIES			
Battery Blanket	Low cooland level Sensor		
• Hydronic heater (5 kw)	Engineered Options available upon request		
• 3-Way Fuel valve	Control Panel Heater		
• 6 Amp - 10 Amp battery charger, 12/24V, UL Listed	• Oil Pan Heater		
Water Jacket Heater	• Trailer		

Codes and Standards Compliances used where applicable

NFPA

el/a

ANSI

AEM

#### **CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel**

HIPOWER<sup>®</sup> COMAP IntelliGen NT Control Panel: The IntelliGen NT digital control panel is back-lit with icon LCD text display, and is PC configurable. IInteliGen NT is a comprehensive controller for both single and multiple gen-sets operating in standby or parallel modes. Compact construction is optimized for these purposes and various modifications allow customers to select the optimum type for a particular application. A built-in synchronizer and digital isochronous load sharer allow a total integrated solution for gensets in standby, island parallel or mains parallel. Native cooperation of up to 32 gen-sets is a standard feature. InteliGen NT supports many standard ECU types and is specially designed to easily integrate new ones.

Engine alarms included: High coolant temperature, low oil pressure, low

coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charging alternator failure, over-speed, under-speed, start failure and emergency stop. Support of engines with ECU (J1939, Modbus and other proprietary interfaces); alarm codes displayed in text form.

Alternator alarms included: Overload, unbalanced voltage, over voltage, under voltage, over frequency, under frequency, short circuit, reverse power, and incorrect phase sequence.









## GENERATOR CONNECTION CABINET

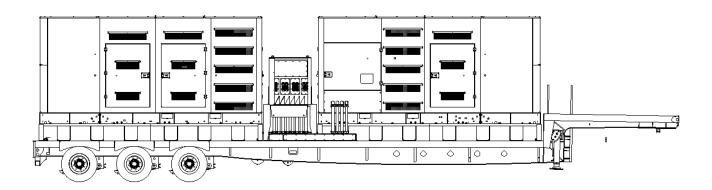


400/3200 A

#### Portable Transformer application:

- 0.090" Aluminum NEMA 3R enclosure, powder coated ANSI 61 gray.
- Indoor/Outdoor rated with corrosion resistant hardware.
- Main swing door with 1/4 turn pad-lockable latch.
- Easy to remove gland plate to access permanent connection lugs.
- Male or Female 400A 16 Series stud type panel mount Camlok devices.
- Camlok color code can be ordered to match any low voltage configuration.
- Bottom access cable trap system with rodent trap door.
- Optional stainless steel leg kit for pad-mount applications.
- Multiple conduit entry space (bottom, top, left side, right side or rear).
- For use as a quick connection port to a per-manent installed switch gear and other similar electrical equipment such as: Automatic transfer switches, manual transfer switches, double throw safety switches, UPS systems, inter-locked switch boards or bolt switches.
- Can be used as a quick connection port or junction point to access and service a stationary generator.

#### ENCLOSED SET WITH TRAILER



CONFIGURATION	Fuel Tank Data (base option)		Generator Data *					
	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight Ibs	dBA	
Enclosed Set	19	600 (per unit)	576″	102″	149″	80,000	72	

