Honeywell

STANDBY GENERATOR 45 kW LIQUID-COOLED GENERATOR SET

Standby Power Rating Model HT045 - 45 kW 60Hz



INCLUDES

- Two Line LCD Tri-lingual Digital Sync Controller
- Electronic Governor
- Closed Coolant Recovery System
- Flexible Fuel Line Connector
- Wireless Remote Monitor**

- Sound Attenuated Aluminum Enclosure
- UV/OzoneResistant Hoses
- CA/MA Emissions Compliant*
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty**
- UL 2200 Listed
- * When specified with a catalyst
- ** 3-Phase systems receive a 2 Year Limited Warranty and do not included the clipped roof corners or the remote monitor.

FEATURES

INNOVATIVE DESIGN & PROTOTYPE TESTING are key components of our success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose Honeywell generators with the confidence that these systems will provide superior performance.

O TEST CRITERIA

- PROTOTYPE TESTED
- SYSTEM TORSIONAL TESTED
- ♦ NEMA MG1-22 EVALUATION
- MOTOR STARTING ABILITY

SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION This state-of-the-art

power maximizing regulation system is standard on all Honeywell models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. An unequalled $\pm 1\%$ voltage regulation.

- SINGLE SOURCE SERVICE RESPONSE from our extensive dealer network provides parts and service knowhow for the entire unit, from the engine to the smallest electronic component.
- Honeywell TRANSFER SWITCHES The Honeywell generator line offers its own transfer systems and controls for total system compatibility.

Application & Engineering Data

GENERATOR SPECIFICATIONS				
• Туре	Synchronous			
Rotor Insulation	Class F			
Stator Insulation	Class H			
Telephone Interference Factor (TIF)	<50			
Alternator Output Leads 1-Phase	4 wire			
Alternator Output Leads 3-Phase	6 wire			
Bearings	Sealed Ball			
Coupling	Flexible Disc			
 Load Capacity (Standby Rating) 	45 kW			
Excitation System	Direct			

ENGINE SPECIFICATIONS

• Make	Generac
Model	V8
Cylinders	8
Displacement	5.4 Liter
Bore	3.55
Stroke	4.17
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Roller, Hydraulic

GOVERNOR SPECIFICATIONS

• Туре	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

VOLTAGE REGULATION

• Type	Electronic
• Sensing	Single Phase
Regulation	± 1%

GENERATOR FEATURES

- · Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above at 40 °C ambient
- Insulation is Class F rated at 145 °C rise at 25 °C ambient
- · All models are fully prototyped tested

ENGINE LUBRICATION SYSTEM

• Oil Pump	Gear
Oil Filter	Full flow spin-on
• Crankcase	cartridge
	6.5 Quarts

ENGINE COOLING SYSTEM

Туре	Pressurized Closed
Fan Speed	1954
Fan Diameter	22 inches
Fan Mode	Puller

FUEL SYSTEM

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• Fuel Type	Natural gas, propane
O exhurates	vapor Devue Dreft
Carburetor	Down Draft
 Secondary Fuel Regulator 	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	5" - 14" H ₂ 0

ELECTRICAL SYSTEM

Battery Charge Alternator	12V 30 Amp
Static Battery Charger	2 Amp
Recommended Battery	Group 24F, 525CCA
System Voltage	12 Volts

ENCLOSURE FEATURES

- Aluminum weather protective enclosure Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler Quiet, critical grade muffler is mounted inside the unit.
- Small, compact, attractive Makes for easy installation of an eye appealing unit.
- · SAE Sound attenuated eclosure ensures quiet operation.

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). (All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271).

Operating Data

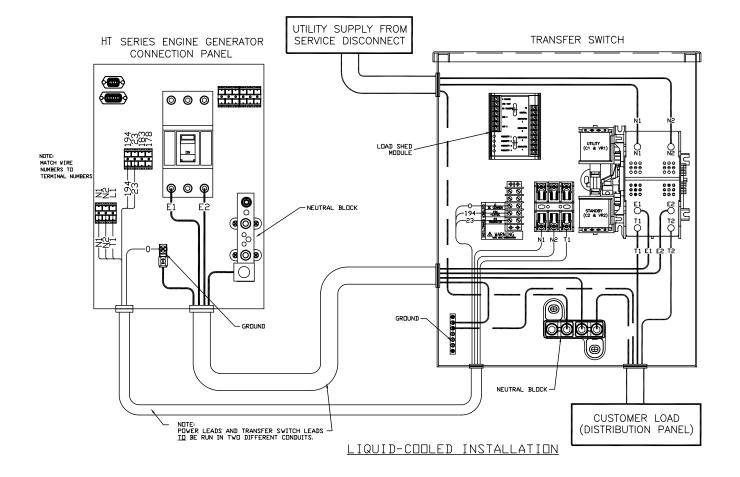
KW RATING (LP/NG)	/ RATING (LP/NG) 45/45					
ENGINE SIZE		5.4 Liter V8				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		kW LPG	AMP	kW Nat. Gas	AMP	CB Size (Both)
120/240V, 1-phase, 1.0 pf	120/240V, 1-phase, 1.0 pf		188	45	188	200
120/208V, 3-phase, 0.8 pf		45	156	45	156	175
120/240V, 3-phase, 0.8 pf		45	135	45	135	150
277/480V, 3-phase, 0.8 pf		45	68	45	68	80
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)	Natura (ft³/f		gal/hr	Propane	ft ³ /hr
Exercise cycle		95	5	1		38
25% of rated load		204	4	2.3		
50% of rated load		392	2	4.3		157
75% of rated load		54	7	6.1		220
100% of rated load*		75	6	8.3		302
For Btu content, multiply ft ³ /hr x 2520 (LP) or ft ³ /hr x 1000 (NG)					
ENGINE COOLING						
Air flow (inlet air including alternator and combustion air) ft ³ /min.			4350		
System coolant capacity	US gal.	3.0				
Heat rejection to coolant BTU/hr.		186,000				
Max. operating air temp. on radiator °C (°F)		60 (150)				
Max. ambient temperature	°C (°F)			50 (140)		
COMBUSTION AIR REQUIREMENTS						
Flow at rated power 60 Hz	cfm			163		
SOUND EMISSIONS IN DBA						
Exercising at 7 meters		63				
Normal operation at 7 meters		68				
EXHAUST						
Exhaust flow at rated output 60 Hz	cfm			414		
Exhaust temp. at muffler outlet	°F			1025		
ENGINE PARAMETERS						
Rated synchronous RPM	60 Hz			1800		
POWER ADJUSTMENT FOR AMBIENT CONDIIONS						
Temperature Deration 3% for ev - ℃	ery 10 °C above			25		
1.65% for every 1	0 °F above - °F			77		
above - m	ery 100 m			183 600		
3% for every 1000 ft. above - ft.				000		

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

45 kW LIQUID-COOLED GENERATOR SETS

Interconnections

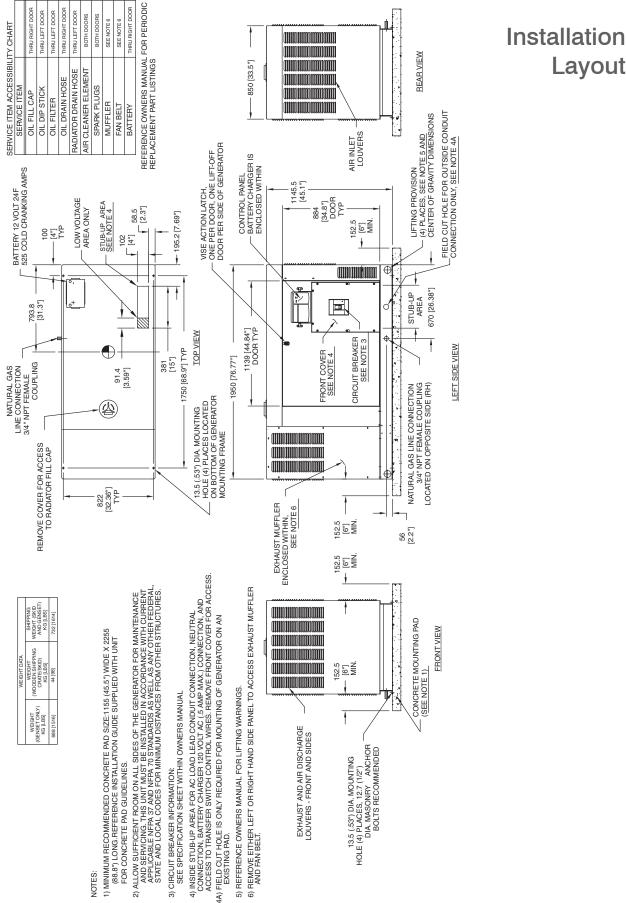


CONTROL FEATURES

2-Line Plain Text LCD Display	Simple user interface for ease of operation.	Automatic Low Oil Pressure Shutdown	Standard
Mode Switch		Overspeed Shutdown	Standard
-Auto	Automatic Start on Utility failure. 7 day exerciser	High Temperature Shutdown	Standard
-Off	Stops unit. Power is removed. Control and charger still operate.	Overcrank Protection	Standard
-Manual/Test (start)	Start with starter control, unit stays on. If utility	Safety Fused	Standard
	fails, transfer to load takes place.	Failure to Transfer Protection	Standard
Programmable start delay between 10-30 seconds	Standard	Low Battery Protection	Standard
Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 rest (90 sec.	50 Event Run Log	Standard
	maximum duration).	Future Set Capable Exerciser	Standard
Engine Warm-up	5 seconds	 Incorrect Wiring Protection 	Standard
Engine Cool-Down	1 minute	Internal Fault Protection	Standard
Starter Lock-out	Starter cannot re-engage until 5 sec. after engine	Common External Fault Capability	Standard
	has stopped.	Governor Failure Protection	Standard
 Smart Battery Charger 	Standard		
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard		

Single and three phase connections may vary, refer to the owner's manual for specific connection information.

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AVAILABLE ACCESSORIES

Model #	Product	Discription
5632	Cold Weather Kit	If the temperature regularly falls below 32° F, install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
6204	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32° F for extended periods of time. For liquid-cooled units only.
6160	Paint Kit	Paint Kit
6205	Scheduled Maintenance Kit	The Liquid-cooled Scheduled Maintenance Kits offer all the hardware necessary to perform a complete maintenance on Honeywell liquid-cooled generators.
5951	Advanced Sync Wireless Remote	Remotely control generator functions with the advanced model's LED display. In addition to remote testing of the generator, set the excercise cycle and maintenance interval reminders.
6102	DLM Load Control Module (50 Amps)	DLM Modules are used in conjunction with the Sync Smart Switch to increase its load manage- ment capabilities. It gives the Sync Smart Switch additional load management flexibility not found in any other transfer switch.
5621	Auxillary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large elec- trical load you may not need.

Generac Power Systems, Inc.

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