

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

O 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

O 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 ±1% voltage regulation.

- O SINGLE SOURCE SERVICE
 RESPONSE from our extensive
 dealer network provides parts and
 service know-how 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.

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Application & Engineering Data

GENERATOR SPECIFICATIONS			
• Type	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		
Valve Seats	Precision ground and hardened		
Lifter Type	Roller, Hydraulic		

GOVERNOR SPECIFICATIONS		
TypeFrequency RegulationSteady State Regulation	Electronic Isochronous ± 0.25%	

VOLTAGE REGULATION			
TypeSensingRegulation	Electronic Single Phase ± 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 Oil Filter Crankcase	Gear Full flow spin-on cartridge 6.5 Quarts		

ENGINE COOLING SYSTEM			
• Type	Pressurized Closed		
Fan Speed	1954		
Fan Diameter	22 inches		
• Fan Mode	Puller		

FUEL SYSTEM	
Fuel Type	Natural gas, propane vapor
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 to prevent injuries.
- Small, compact, attractive Makes for an easy, eye appealing installation.
- 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)				45/45		
ENGINE SIZE				5.4 Liter V8		
GENERATOR OUTPUT VOLTAGE/KW - 60H	z	kW LPG	AMP	kW Nat. Gas	AMP	CB Size (Both)
120/240V, 1-phase, 1.0 pf		45	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/r			Propane cu ft/hr	
Exercise cycle		95			38	
25% of rated load		20-	4		82	
50% of rated load		399	2		157	
75% of rated load		54	7		220	
100% of rated load*		75	6		302	
For Btu content, multiply ft³/hr x 2520 (LP) or ft³/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						
	y 10 °C above - °C ry 10 °F above - °F			25 77		
	y 100 m above - m 1000 ft. above - ft.			183 600		

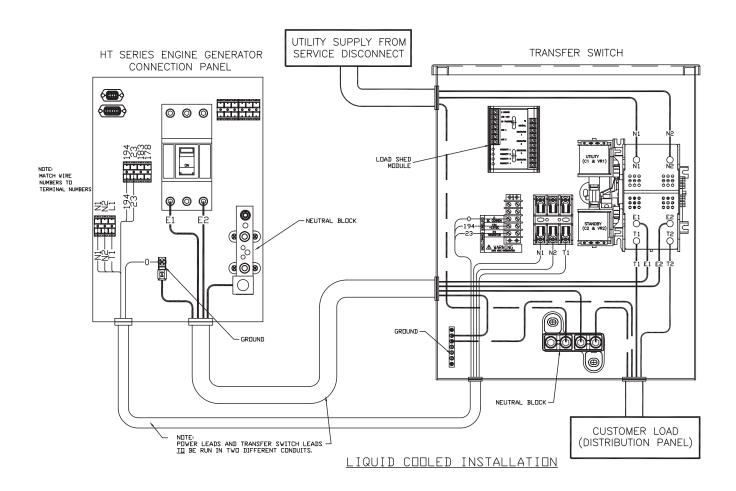
Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

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

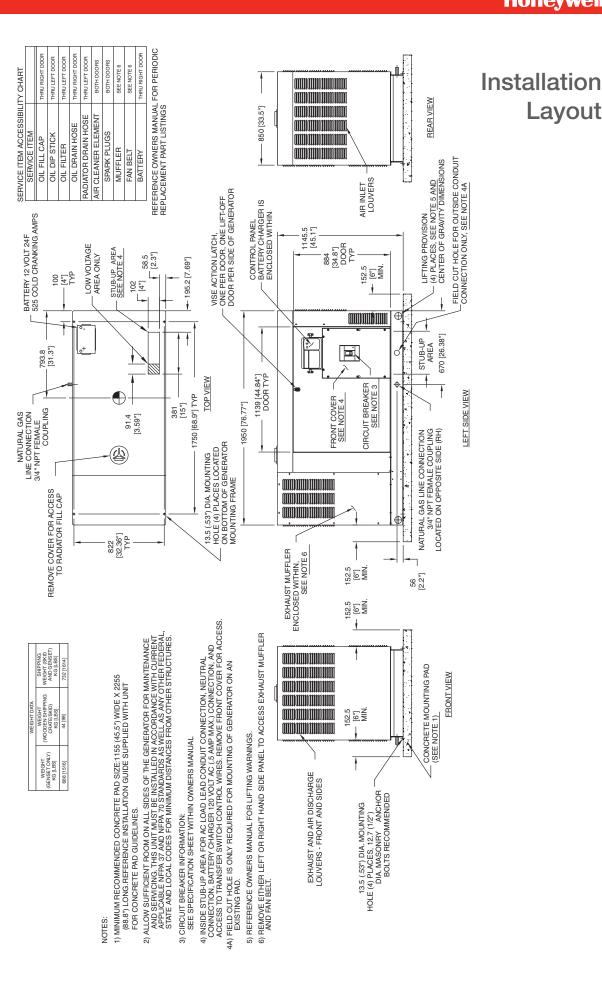
Interconnections



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		
-Auto	Automatic Start on Utility failure. 7 day exerciser	High Temperature Shutdown	Standard	
-Off	Stops unit. Power is removed. Control and	Overcrank Protection	Standard	
	charger still operate.	Safety Fused	Standard	
-Manual/Test (start)	Start with starter control, unit stays on. If utility fails, transfer to load takes place.	Failure to Transfer Protectio	Standard	
Programmable start delay between 10-30 seconds	Standard	Low Battery Protection	Standard	
Frogrammable start delay between 10-30 seconds	Stal Idal d	• 50 Event Run Log	Standard	
Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 rest (90 sec.	Future Set Capable Exerciser	Standard	
maximum duration)	Incorrect Wiring Protection	Standard		
• Engine Warm-up	5 seconds 1 minute	Internal Fault Protection	Standard	
Engine Cool-Down Charter Leak out		Common External Fault Capability	Standard	
Starter Lock-out	Starter cannot re-engage until 5 sec. after	Governor Failure Protection	Standard	
Smart Battery Charger	engine has stopped. 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.

Layout



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 management 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 electrical load you may not need.

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