

STANDBY GENERATOR

80 kW

LIQUID-COOLED GENERATOR SET

Standby Power Rating Model HT080 - 80 kW 60Hz



INCLUDES

- Two Line LCD Tri-lingual Digital Sync Controller
- Electronic Governor
- Closed Coolant Recovery System
- Flexible Fuel Line Connector
- UV/OzoneResistant Hoses

- Sound Attenuated Aluminum Enclosure
- EPA Emissions Compliant*
- Natural Gas or LP Gas Operation
- 2 Year Limited Warranty
- UL 2200 Listed

*Not for resale in CA/MA

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.

- 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 Synchronous Rotor Insulation Class H Class H · Stator Insulation • Telephone Interference Factor (TIF) < 50 • Alternator Output Leads Phase 3 6/4 wire · Bearings Sealed Ball Coupling Flexible Disc · Load Capacity (Standby Rating) 80 kW · Excitation System Brushless

ENGINE SPECIFICATIONS		
Make	Generac	
Model	V-type	
Cylinders	8	
Displacement	4.6 Liter	
Bore	3.55	
• Stroke	3.54	
 Compression Ratio 	9.4:1	
Intake Air System	Naturally Aspirated	
Valve Seats	Hardened	
Lifter Type	Hydraulic	

GOVERNOR SPECIFICATIONS				
Type Frequency Regulation		Electronic Isochronous		
Steady State Regulation		± 0.25%		
Adjustments For Speed		Yes		
	Droop	Yes		

VOLTAGE REGULATION		
• Type	Electronic	
Sensing	Three Phase	
Regulation	± 1%	

GENERATOR FEATURES

- · Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above a 40 °C ambient
- Insulation is Class H rated at 130 °C rise
- All models are fully prototyped tested

ENGINE LUBRICATION SYSTEM		
Oil Pump	Gear	
Oil Filter	Full flow spin-on cartridge	
Crankcase	6 Quarts	

ENGINE COOLING SYSTEM		
• Type	Closed	
Water Pump	Belt driven	
Fan Speed	1600	
Fan Diameter	26 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	11" - 14" H ₂ 0

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

ENCLOSURE FEATURES

- Aluminum all weather protective enclosure options available —
 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 enclosure 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

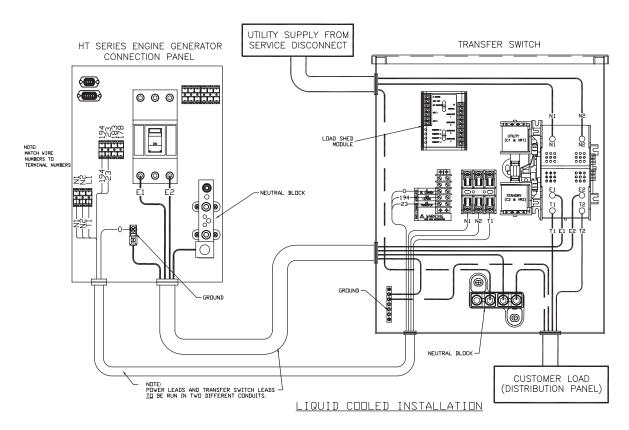
KW RATING (LP/NG)		80/80			
ENGINE SIZE		4.6 Liter V-8			
GENERATOR OUTPUT VOLT	AGE/KW - 60Hz	kW LPG	AMP	CB S	ize
120/240V, 1-phase, 1.0 pf		77	320	400)
120/208V, 3-phase, 0.8 pf		80	278	300)
120/240V, 3-phase, 0.8 pf		80	249	300)
277/480V, 3-phase, 0.8 pf		80	120	150)
GENERATOR LOCKED ROTO AVAILABLE @ VOLTAGE DIP					
Single phase or 208-240 3-phase			10	60	
480V 3-phase			1	35	
ENGINE FUEL CONSUMPTION	ON (Natural Gas) (Propane)	Natura (ft ³ /		Propa (gal/hr.)	ane cu ft/hr
Exercise cycle		13	1	1.45	53
25% of rated load		31	2	3.45	126
50% of rated load		60	0	6.64	241
75% of rated load		83	5	9.25	336
100% of rated load*		11!	54	12.78	465
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 a	nd combustion air) ft ³ /min.		53	00	
System coolant capacity	US gal.		4	.0	
Heat rejection to coolant	BTU/hr.		316	,000	
Max. operating air temp. on radiator	°C (°F)		60 (150)	
Max. ambient temperature	°C (°F)		50 (140)	
COMBUSTION AIR REQUIRE	EMENTS				
Flow at rated power 60 Hz	cfm		2	50	
SOUND EMISSIONS IN DBA					
Exercising at 7 meters			6	34	
Normal operation at 7 meters			7	4	
EXHAUST					
Exhaust flow at rated output 60 Hz	cfm		7:	20	_
Exhaust temp. at muffler outlet	°C (°F)		449	(840)	
ENGINE PARAMETERS					
Rated synchronous RPM	60 Hz		36	500	
POWER ADJUSTMENT FOR	AMBIENT CONDIIONS				
Temperature Deration	3% for every 10 °C above - °C 1.65% for every 10 °F above - °F			5 7	
Altitude Deration	1% for every 100 m above - m 3% for every 1000 ft. above - ft.			33 00	

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.

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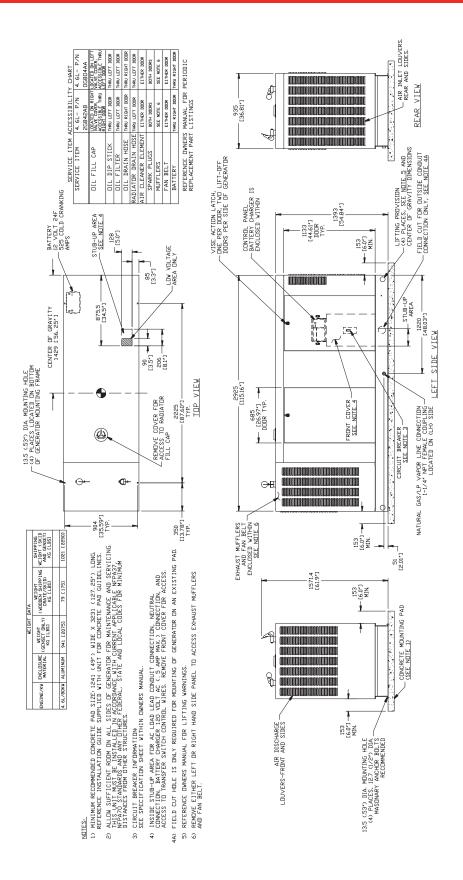
Interconnections



CIRCUIT BREAKER WIRE AND CONDUIT SIZE			
kW	VOLTS	CB AMPS	LUG SIZE
80	240 1 Ø	400	(1) 600 mcm to #4 or (2) 1/0 to 250 mcm to 1/0
80	240 3 Ø	300	(1) 600 mcm to #4 or (2) 1/0 to 250 mcm to 1/0
80	208 3 Ø	300	(1) 600 mcm to #4 or (2) 1/0 to 250 mcm to 1/0
80	480 3 Ø	150	#6 to 300 mcm

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	Failure to Transfer Protectio	Standard
Programmable start delay between 10-30 seconds	utility fails, transfer to load takes place. Standard	Low Battery Protection	Standard
Flogrammable start delay between 10-30 seconds	Stariuaru	• 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	Internal Fault Protection	Standard
• Engine Cool-Down	1 minute	Common External Fault Capability	Standard
Starter Lock-out	Starter cannot re-engage until 5 sec. after	Governor Failure Protection	Standard
	engine has stopped.		
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.



Installation Layout

AVAILABLE ACCESSORIES

Model #	Product	Description
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.
5619	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	Industrial Grey Kit
5985	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	Sync Wireless Remote	Remotely control generator functions with the advanced model's LCD display. In addition to remote testing of the generator, set the excercise cycle and maintenance interval reminders

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