

# STANDBY GENERATOR

# 100 kW

LIQUID-COOLED GENERATOR SET

Standby Power Rating Model HT100 - 100 kW 60Hz









### **INCLUDES**

- Two Line LCD Tri-lingual Digital Sync™ Controller
- Electronic Governor
- Closed Coolant Recovery System
- Flexible Fuel Line Connector
- UV/OzoneResistant Hoses
- Mobile Link™ Cellular Monitoring System\*

- Sound Attenuated Aluminum Enclosure
- CA/MA Emissions Compliant
- · Natural Gas or LP Gas Operation
- 2 Year Limited Warranty
- UL 2200 Listed
- \* Download the free Mobile Link App at







### **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. Digital voltage regulation at  $\pm 1\%$ .

- O 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.

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# Application & Engineering Data

#### **GENERATOR SPECIFICATIONS** Type Synchronous · Rotor Insulation Class H · Stator Insulation Class H • Telephone Interference Factor (TIF) < 50 • Alternator Output Leads Phase 3 6/4 wire · Bearings Sealed Ball Coupling Gear Drive · Load Capacity (Standby Rating) 100 kW Brushless · Excitation System

ENGINE SPECIFICATIONS			
Make	Generac		
Model	V-type		
Cylinders	10		
Displacement	6.8 Liter		
Bore	3.55		
Stroke	4.17		
Compression Ratio	9:1		
Intake Air System	Naturally Aspirated		
Lifter Type	Hydraulic		

GOVERNOR SPECIFICATIONS		
• Type	Electronic	
Frequency Regulation	Isochronous	
Steady State Regulation	± 0.25%	

VOLTAGE REGULATION	
• Type	Full Digital
Sensing	Three Phase
Regulation	± 0.25%

### **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     Oil Filter	Gear Full flow spin-on	
Crankcase	cartridge 5 Quarts	

ENGINE COOLING SYSTEM	
• Type	Closed
Water Pump	Belt driven
Fan Speed	1670
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 <sub>2</sub> 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)				100/100		
ENGINE SIZE		6.8 Liter V-10				
GENERATOR OUTPUT VOLTAGE/	 KW - 60Hz	kW LPG	AMP	kW Nat. Gas	AMP	CB Size (Both)
120/240V, 1-phase, 1.0 pf		100	417	89	371	450
120/208V, 3-phase, 0.8 pf		100	347	94	326	400
120/240V, 3-phase, 0.8 pf		100	301	94	283	350
277/480V, 3-phase, 0.8 pf		100	150	94	141	175
GENERATOR LOCKED ROTOR KV AVAILABLE @ VOLTAGE DIP OF 3						
Single phase or 208-240 3-phase				200		
480V 3-phase				240		
ENGINE FUEL CONSUMPTION (N	atural Gas) (Propane)	Natura (ft³/		(gal/hr.)	Propane	(ft³/hr)
Exercise cycle		13	0	1.4		52
25% of rated load		37	1	4.1		149
50% of rated load		71	3	7.9		287
75% of rated load		99	1	11		400
100% of rated load*		126	60	13.9		507
For Btu content, multiply ft <sup>3</sup> /hr x 2520 (l	LP) or ft <sup>3</sup> /hr x 1000 (NG)					
ENGINE COOLING						
Air flow (inlet air including alternator and	d combustion air) ft <sup>3</sup> /min.			5,500		
System coolant capacity	US gal.			4.5		
Heat rejection to coolant	BTU/hr.			342,000		
Max. operating air temp. on radiator	°C (°F)			60 (150)		
Max. ambient temperature	°C (°F)			50 (140)		
COMBUSTION AIR REQUIREMEN	TS					
Flow at rated power 60 Hz	cfm			262		
SOUND EMISSIONS IN DBA						
Exercising at 7 meters				68		
Normal operation at 7 meters				72		
EXHAUST						
Exhaust flow at rated output 60 Hz	cfm			888		
Exhaust temp. at muffler outlet	°C (°F)			516 (960)		
ENGINE PARAMETERS						
Rated synchronous RPM	60 Hz			2300		
POWER ADJUSTMENT FOR AMBI	ENT CONDIIONS					
Temperature Deration	3% for every 10 °C above - °C 1.65% for every 10 °F above - °F			25 77		
Altitude Deration	1% for every 100 m above - m 3% for every 1000 ft. above - ft.			183 600		

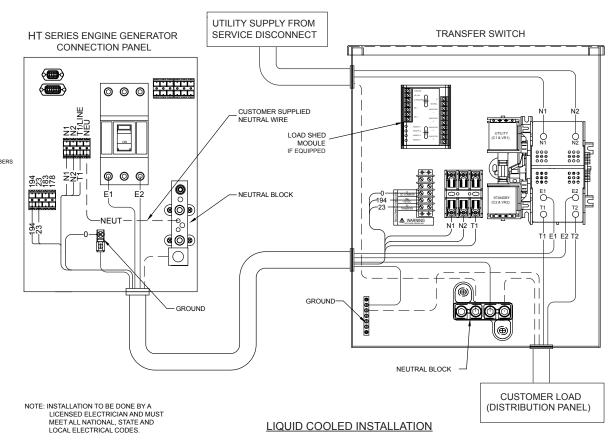
Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

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.

# 100 kW

# LIQUID-COOLED GENERATOR SETS

# Interconnections

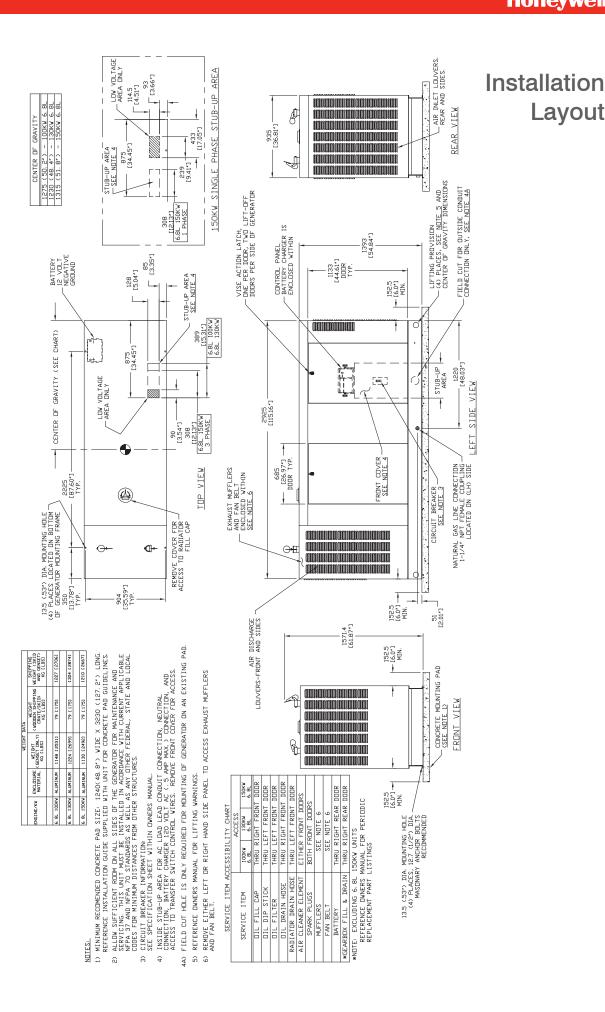


	CIR	CUIT BREAF	KER WIRE AND CONDUIT SIZE
kW	VOLTS	CB AMPS	LUG SIZE
100	240 1 Ø	450	3-2/0 to 400 mcm
100	240 3 Ø	350	(1) 600 mcm to #4 or (2) 250 mcm to 1/0
100	208 3 Ø	400	(1) 600 mcm to #4 or (2) 250 mcm to 1/0
100	480 3 Ø	175	#6 to 300 mcm

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

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

Layout



# **AVAILABLE ACCESSORIES**

Model #	Product	Description
005633-0	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.
005620-0	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32° F for extended periods of time. For liquid-cooled units only.
006160-0	Paint Kit	Industrial Grey
005660-0	Scheduled Maintenance Kit	The Liquid-cooled Scheduled Maintenance Kits offer all the hardware necessary to perform a complete maintenance on Honeywell liquid-cooled generators.
006874-0	Smart Management Module (50 Amps)	Manage large loads by utilizing up to 8 individual Smart Management modules. These devices are installed directly in line with existing appliance wiring for easy installation.

S45 W29290 Hwy. 59 Waukesha, WI 53187 Tel: 1-855-GEN-INFO honeywellgenerators.com 0191040SBY-G January 2016 © Generac Power Systems, Inc. All rights reserved. Specifications subject to change without notice.

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