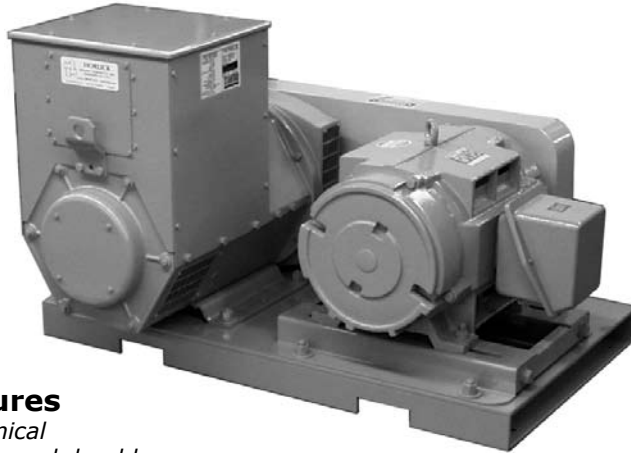




# Horlick Company, Inc.

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## 60SC Model Motor-Generator Set 50-60 Hz Frequency Converter



### Features

*Economical  
Reliable and durable  
Low audible noise  
Easy to operate  
Exceptional MTBF  
Minimal maintenance required*

### Description

Horlick 60SC Model motor-generator sets utilize a 4-pole, 1500 RPM, induction motor to drive a 4-pole, 1800 RPM, synchronous generator through a V-belt drive system. The output frequency is 60 Hz ( $\pm 1.5\%$ ) due to slip of the induction motor. 60SC Model motor-generator sets are rated for continuous duty and they provide manufacturers a clean source of 60 Hz power isolated from switching transients, voltage fluctuations and power line noise. They are most commonly utilized by foreign manufacturers who require 60 Hz power to test electrical equipment prior to shipment to the United States. Alternatively, these motor-generator sets can also be utilized in overseas applications to power 60 Hz equipment brought over from the United States. 60SC Model motor-generator sets are ideal for installations where the application does not require a precise 60 Hz power source.

Horlick 60SC Model motor-generator sets are designed to be installed inside where a 75-85 dBA noise level is acceptable. As an option, 60SC Model motor-generator sets can be mounted in a weather-resistant enclosure, a sound-reduced enclosure, a cargo container or a trailer. Each 60SC Model motor-generator set is equipped with a standard control system that can be unit-mounted, wall-mounted or free standing. The components in the control system perform the functions necessary to operate, monitor and protect the system.



### Specifications

#### Motor

- Induction, 1500 RPM, 4-pole
- Continuous duty, Class F insulation, open drip-proof
- Selection of 50 Hz, 3-phase input voltages to include: 208V, 220V, 380V or 416V

#### Generator

- Brushless synchronous, 1800 RPM, 4-pole
- Continuous duty, Class F insulation, open drip-proof
- Selection of 60 Hz output voltages to include: 120/240V, 1-phase, 120/208V, 3-phase or 277/480V, 3-phase
- Rated at 0.8 power factor to insure proper handling of inductive loads

#### Mechanical Construction

- Motor and generator mounted on rigid steel base
- V-belt drive system
- Complete OSHA belt guard
- Forklift or pallet jack provisions

#### Standard Control Systems

Each motor-generator set is equipped with a separate wall-mounted or floor-standing control panel. The standard package includes the following components:

#### Motor Controls

- Motor starter with adjustable overloads
- Start-Stop push-buttons with terminal strip for remote start/stop
- Control power transformer with fusing
- Pilot light to indicate "Motor Run"

#### Generator Controls

- Analog meter package to include voltmeter, ammeter and frequency meter
- Voltmeter and ammeter phase selector switches (3-phase systems)
- Voltage regulator,  $\pm 1\%$  regulation accuracy, with automatic buildup and rheostat for control of regulated voltage
- Output circuit breaker, molded case, to protect generator against short circuit or prolonged overload
- Pilot light to indicate "60 Hz Load On"

