

Hypernova Series

Inverter Power System



THREE PHASE SYSTEMS

3.2 kVA to 80.0 kVA

Designed with Industry Leading
Compact Footprint



3.2 kVA to 10 kVA 12.5 kVA to 16.7 kVA



25 kVA to 80 kVA

Cabinet depicted is 60kVA. Dimensions shown on chart.

STANDARD FEATURES

- 98% Efficient Typical
- PWM/IGBT Technology and Micro-Controller
- Internal Maintenance Bypass
- User Programmable with Password Protection
- Automatic Event, Test and Alarm Log
- RS232 Communications Port
- Input Circuit Breaker
- 2ms Transfer Time
- Low Audible Noise (45 dBA @1m)
- Space-Saving Design
- 65kAIC Withstanding Rating
- NEMA Type 1 Cabinet

OPTIONAL FEATURES

- Enhanced Communications
 - Expanded Building Management Protocols
 - BACnet or Modbus Communications Interface
 - NEW IoT Connect Cloud Software
- External Maintenance Bypass
- Summary Alarm Dry Form C Contacts
- Internal Output Distribution Circuit Breakers
- Factory Startup and Training
- Normally Off Output
- Output Trip Alarms
- Remote Panels (Meter, Status or Summary Alarm)
- Extended Factory Warranty and Maintenance Contracts

SPECIFICATIONS

- | | | |
|--|--|--|
| • Input Voltage: | 120/208VAC or 277/480 VAC
3-Phase 4-Wire Plus Ground | • Output Distortion Less Than 3% THD for Linear Loads |
| • Output Voltage: | 120/208VAC or 277/480 VAC
3-Phase 3 or 4-Wire Plus Ground | • Compatible With Generators (10x Inverter Size) |
| • Output Load | .5 Lag to .5 Lead (Up to 60kVA) | • Custom Voltages Available |
| Power Factor: | .81 Lag to .81 Lead (80kVA) | • 90 Minute Runtime Standard; 120 available |
| • Compatible with All Lighting and Motor Loads | | • Inverter Operating Temperature 32°F to 104°F (0°C to 40°C) |
| • Forced Air Cooling Only During Emergency Operation;
No Filters Required | | • Battery Operating Temperature 68°F to 86°F (20°C to 30°C)
per UL 924 Specifications |

Hypernova Series

Three-Phase Inverter Power System

3.2 kVA to 80.0 kVA



ORDERING GUIDE

EXAMPLE MODEL # 1-G-05-S-BA2007-T-2YW

VOLTAGE INPUT/OUTPUT ¹	SYSTEM TYPE	KVA / KW ²	BATTERY TYPE	RUNTIME ³	OUTPUT BREAKERS ⁵	OPTIONS
1 - 120/208 ^{10,11} 2 - 277/480 Z - Other Voltages (may require UL testing) ¹¹	G - Hypernova Series	03 - 3.2 04 - 4.2 05 - 5.0 07 - 7.5 10 - 10.0 12 - 12.5 16 - 16.7 25 - 25.0 33 - 33.2 37 - 37.5 50 - 50.0 60 - 60.0 80 - 80.0	S - Standard 10YR Warranty Battery S15 - 15YR Warranty Battery S20 - 20YR Warranty Battery	(BLANK) - 90 Minutes R120 - 120 Minutes ⁴ (60 kVA max)	EXAMPLE B A 20 07 OUTPUT B - Normally On N - Normally Off QUANTITY ⁵ See Note 5 AMP RATING ⁶ (Distribution Breakers) VOLTAGE, POLE A - 120, 1-Pole ¹¹ B - 208, 2-Pole ¹¹ C - 240, 2-Pole ¹¹ D - 277, 1-Pole E - 120/208, 3-Pole ¹¹ F - 277/480, 3-Pole G - 480, 2-Pole Z - Other (Contact Factory)	A - Remote Summary Alarm Panel with one indicator light (Not available with "C" option) BCF - Battery Cabinet Fan (Included when ordering BTM) BL - Circuit Breaker Locking Mechanism BTM - Battery Temperature Monitor (Includes BCF) C - Status Monitoring Dry Form C Contacts F - Fast Charge I - Inverter on Dry Form C Contact O - Output Transfer Delay (Factory Set at 3 Seconds, Adjustable 0 to 7.5 Seconds) P - Remote Status Panel (Status Alarm/Alarm Silence Switch) (Requires C Option) S - Summary Fault Dry Form C Contacts T - Output Trip (Supervised) Alarm ⁵ Z - Seismic Mounting ⁹ PICK 1: BAC - BACnet BIP - BACnet IP IOT - IoT Inverter Connect Cloud Communications MIP - Modbus TCP/IP MOD - Modbus RTU R - Remote Meter Panel (Standard 100FT Cable) SEA - Serial to Ethernet Adapter

ACCESSORIES

DT - Drip Top (NEMA 2)

EMBP - External Maintenance Bypass Switch ^A

SPARES - Spare Parts Kit

SPAREF - Spare Fuses

A) With External Maintenance Bypass Switch, only main output breaker is available.

Required feature for part number.

Optional feature. Not required for part number.

1. Standard input voltage is 4-Wire Wye. 3-Wire Delta Input requires external isolation transformer.

2. KVA= KW

3. Standard battery run time is 90 minutes.

4. Please contact quoting for additional runtime. Additional runtime may affect the system's dimensions. Max 120 min runtime available is 60KVA.

5. Maximum output breakers available:

- 3.2K-10K - 1 Internal (3-pole); 30 (1-pole) unsupervised or 20 supervised (1-pole) with the addition of a top mount enclosure.
- 12.5K & 16.7K - 12 (1-pole) unsupervised or 8 (1-pole) supervised and with the addition of a top mount enclosure, an additional 30 (1-pole) unsupervised or 20 (1-pole) supervised.
- 25K-60K - 24 (1-pole) unsupervised or 16 (1-pole) supervised and with an extra tray an additional 14 (1-pole) unsupervised or 12 (1-pole) supervised.

Combinations of 1, 2, and 3 pole breakers available (consult factory).

6. Higher AMP ratings available - contact factory.

7. One year warranty is standard.

8. Maintenance bypass switch is a "make before break".

9. Anchorage based on calculations - will increase system width. For systems requiring OSHPD/Withstand testing, please see CIII-H.

10. 277/480V standard for 60kVA. Contact factory for other voltages.

11. Not available on 60KVA.

WARRANTY ⁷

2YW - Start Up & Same Day Training
(Increases Standard 1 Year Electronics Warranty to 2 years)

2YWT - Start Up, Same Day Training and Full Run Test
(Increases Standard 1 Year Electronics Warranty to 2 years)

5YP - 5-Year Maintenance Plan

5YW - 5-Year Extended Electronics Warranty
(Includes 3 years of Extended Electronics Warranty when combined with 2YW)

TR - Training (If Required on Day Other Than Start Up)

DIMENSIONS (90 MINUTE RUN SYSTEMS) ⁴

Alternate runtimes may affect cabinet size - contact factory.

Electronics Module							Batteries 90 Minutes @ Full Load							Total System	
Partial Model Number	Power Rating (KVA / KW)	Heat Loss (BTU)	Cabinet Dimensions				Voltage (VDC)	Current (Amps)	Battery Cabinet Dimensions				Number of Batteries	Dimensions W X H X D (in)	Weight (lbs)
			Width (in / cm)	Height (in / cm)	Depth (in / cm)	Weight (lbs)			QTY	Width (in / cm)	Height (in / cm)	Depth (in / cm)			
G-03	3.2	341	24 / 61	47 / 119	25 / 64	485	144	41	1	17.5 / 44.5	62 / 157.5	25 / 64	12	41.5 x 62 x 25	1,730
G-04	4.2	341	24 / 61	47 / 119	25 / 64	485	144	41	1	17.5 / 44.5	62 / 157.5	25 / 64	12	41.5 x 62 x 25	1,730
G-05	5.0	341	24 / 61	47 / 119	25 / 64	485	144	41	1	17.5 / 44.5	62 / 157.5	25 / 64	12	41.5 x 62 x 25	1,730
G-07	7.5	512	24 / 61	47 / 119	25 / 64	485	144	61	1	17.5 / 44.5	62 / 157.5	25 / 64	12	41.5 x 62 x 25	1,970
G-10	10.0	682	24 / 61	47 / 119	25 / 64	590	144	81	1	17.5 / 44.5	62 / 157.5	25 / 64	12	41.5 x 62 x 25	2,315
G-12	12.5	853	30 / 76	47 / 119	25 / 64	640	180	81	1	22.75 / 58	77 / 196	25 / 64	15	53 x 77 x 25	2,815
G-16	16.7	1139	30 / 76	47 / 119	25 / 64	640	240	81	1	22.75 / 58	77 / 196	25 / 64	20	53 x 77 x 25	3,415
G-25	25.0	1705	37.5 / 95	72 / 182	25 / 64	1150	240	122	2	45.5 / 116	77 / 196	25 / 64	40	83 x 77 x 25	5,900
G-33	33.2	2264	37.5 / 95	72 / 182	25 / 64	1150	240	161	2	45.5 / 116	77 / 196	25 / 64	40	83 x 77 x 25	6,700
G-37	37.5	2558	37.5 / 95	72 / 182	25 / 64	1360	240	182	3	68.25 / 173.5	77 / 196	25 / 64	60	105.75 x 77 x 25	8,485
G-50	50.0	3410	37.5 / 95	72 / 182	25 / 64	1360	240	243	3	68.25 / 173.5	77 / 196	25 / 64	60	105.75 x 77 x 25	9,685
G-60	60.0	4092	44 / 112	72 / 182	31 / 79	1460	240	291	4	91 / 232	77 / 196	25 / 64	80	135 x 77 x 31	12,560
G-80	80.0	5460	44 / 112	72 / 182	31 / 79	1550	240	390	5	114 / 290	77 / 196	25 / 64	100	160 x 77 x 31	15,425