

Hypernova-U Series

OUST-Rated Inverter Power System for Auxiliary Loads



THREE PHASE SYSTEMS

3kVA to 60kVA

Designed with Industry-Leading
Compact Footprint



3.2kVA to 10kVA

12.5kVA to 16.7kVA



25kVA to 60kVA

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
- RS232 Communications Port
- Input Circuit Breaker
- No Break 2ms Transfer Time
- NFPA 101 Self Testing and Data Logging Capable
- Code Compliant : 20 Minute Runtime
- Low Audible Noise (45 dBA @1m)
- Space-Saving Design
- 65 KAIC 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 Voltage: 120/208VAC or 277/480 VAC
3-Phase 3 or 4-Wire Plus Ground
- Output Load Power Factor .5 Lag to .5 Lead
- Compatible with All Lighting and Motor Loads
- Forced Air Cooling Only During Emergency Operation;
No Filters Required
- Output Distortion Less Than 3% THD for Linear Loads
- Compatible With Generators (10x Inverter Size)
- Custom Voltages Available
- 20 Minute Runtime Standard
- Inverter Operating Temperature 32°F to 104°F (0°C to 40°C)
- Battery Operating Temperature 68°F to 86°F (20°C to 30°C)
per UL 924 Specifications

Hypernova-U Series

Three-Phase OUST-Rated Inverter Power System

3kVA to 60kVA



ORDERING GUIDE

EXAMPLE MODEL # 1-U-03-S-R20-BA2007-T-2YW

VOLTAGE INPUT/OUTPUT ¹	SYSTEM TYPE	KVA / KW ²	BATTERY TYPE	RUNTIME ³	OUTPUT BREAKERS ⁴	OPTIONS
1 - 120/208 ^{9,10} 2 - 277/480 Z - Other Voltages (may require UL testing) ¹⁰	U - Hypernova-U 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	S - Standard 10YR Warranty Battery S15 - 15YR Warranty Battery S20 - 20YR Warranty Battery	R20 - 20 Minutes	EXAMPLE B A 20 07 OUTPUT B - Normally On N - Normally Off QUANTITY ⁴ See Note 5 AMP RATING ⁵ (Distribution Breakers) VOLTAGE, POLE A - 120, 1-Pole ¹⁰ B - 208, 2-Pole ¹⁰ C - 240, 2-Pole ¹⁰ D - 277, 1-Pole E - 120/208, 3-Pole ¹⁰ 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 ⁴ Z - Seismic Mounting ⁸ 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 ^{A7}

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 runtime is 20 minutes. Contact factory for other runtimes.

4. 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).

5. Higher AMP ratings available - contact factory.

6. One year warranty is standard.

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

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

9. 277/480V standard for 60kVA. Contact factory for other voltages.

10. Not available on 60kVA.

WARRANTY ⁶

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

Alternate runtimes may affect cabinet size - contact factory.

Electronics Module							Batteries 20 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)			
U-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	1040
U-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	1040
U-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	1040
U-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	1250
U-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	1355
U-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	1615
U-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	1815
U-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	3500
U-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	3500
U-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	4885
U-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	4885
U-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	6160