

# VFD-L Series Instruction Sheet

## 1 Preface

Thank you for choosing DELTA VFD-L series AC Drive. The VFD-L series is manufactured using high-quality components, material and incorporating the latest microprocessor technology available.

This manual will help in the installation, parameter setting, troubleshooting, and safety maintenance of the AC motor drive. To guarantee safe operation of the equipment, read the following safety guidelines before connecting power to the AC motor drive. Keep the operating manual handy and distribute it to all users for reference.



1. All input power lines to Delta VFD-L series AC Drives are hazardous. An electric shock or electrical fire may occur if appropriate safety precautions are not followed. Please refer to the safety guidelines in the VFD-L.

2. Always use VFD-L series AC Drive together with frequency converter cables. The power line must be at least 10m long. To ensure the safety of the user, the VFD-L series AC Drive must be used in a safe environment. Please refer to the safety guidelines in the VFD-L.

3. The AC drive may be damaged if the power supply is interrupted. To ensure the safety of the equipment, always disconnect the AC drive input power (VFD-L, VFD-L, VFD-L) before the AC drive is connected to the power supply.



4. There are highly sensitive VFD-L components in the product and its accessories. These components are especially sensitive to static electricity. To avoid damaging these components, do not touch the components with your hands or use your tools.

5. Ground the VFD-L using the ground terminal. The grounding method may vary with the type of the motor, refer to the VFD-L manual for details.

## 2 Receiving and Inspection

The VFD-L AC drive has gone through rigorous quality control tests at the factory before shipment. Since many things may happen during shipping, please check for the following after receiving the AC motor drive:

- Inspect the entire drive to make sure it is not damaged during shipment.
- Make sure that the part number indicated on the nameplate corresponds with the parameter of your order.

Nameplate information Example of VFD-L200:



### Model Explanation

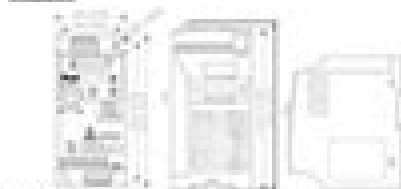


### Serial Number Explanation



If there is any incomplete information not corresponding to your purchase order or any problem, please contact your distributor.

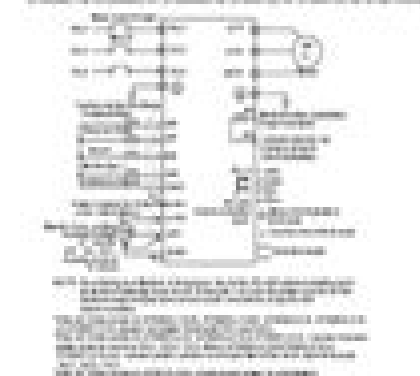
## 3 Wiring



### 3 Wiring

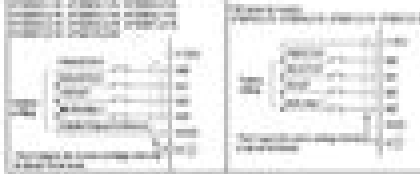
#### Basic Wiring Diagram

Structure that cannot wiring according to the usual diagram shown below. Please refer to the figure and then wiring order when using the VFD-L.

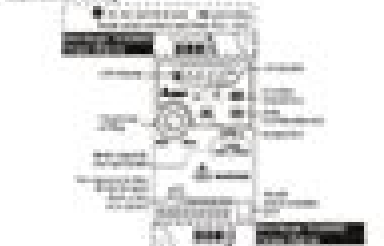


The VFD-L series AC drive is designed to be used in a safe environment. Please refer to the safety guidelines in the VFD-L manual for details.

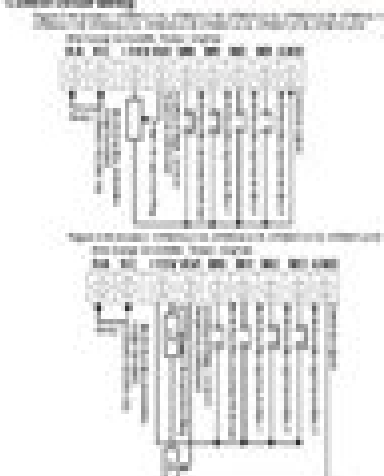
#### Wiring for VFD-L series and VFD-L series



## 4 Summary of Parameters



#### Control circuit wiring



#### Wiring Notes: VFD-L200 AC Drive to Motor Load

1. The AC drive must be installed in a safe environment. Please refer to the safety guidelines in the VFD-L manual for details.
2. Ensure the appropriate protection device (circuit breaker or fuse) is connected between the power supply and AC drive.
3. Make sure that the load is connected correctly and the AC drive is properly grounded. Grounding equipment should not exceed 1.0 Ω.
4. Use ground leads that comply with international standards and keep them as short as possible.
5. Multiple VFD-L units can be installed in one location. When one drive is grounded directly to a common ground terminal. The VFD-L ground terminal may also be connected in parallel, as shown in the figure below. Avoid these series ground loops.



6. When the AC drive is used to drive a motor, the VFD-L and the motor are connected to the main terminals (U, V, and W) respectively. The motor will rotate counter-clockwise (as viewed from the shaft end of the motor) when a forward operation command is received. To reverse the direction of motor rotation, select one any of the two motor loads.
7. Make sure that the power is supplied to the control circuit and the motor is connected to the AC drive.
8. Do not attach to motor when power is applied to the AC drive.
9. Do not attach to motor when the power is applied to the AC drive in a stop state.
10. Power the power and control lines separately or orthogonal to each other.
11. If a short is required for reducing the VFD-L (electronic magnetic interference) model, it is not recommended to use the VFD-L. The VFD-L can also be reduced by lowering the carrier frequency.

12. When the AC drive is installed in a place where a hot water is provided, install the heat sink to the VFD-L. The VFD-L is not recommended to be installed in a place where the temperature is higher than 40 °C (104 °F) or the humidity is higher than 90%.
13. When using a general VFD-L (VFD-L) with a built-in fan, select a correct fan with a diameter of 100mm or above, and make sure that it is connected to the power supply. For the specific VFD-L of the AC motor drive, please refer to the correct fan with a diameter of 100mm or above.

## 4 Summary of Parameters

### Group 1: Basic Parameters

No.	Parameter	Setting	Factory Default
1-01	Forward operation command	01: 0000	01: 0000
1-02	Reverse operation command	02: 0000	02: 0000
1-03	Forward stop command	03: 0000	03: 0000
1-04	Reverse stop command	04: 0000	04: 0000
1-05	Forward reset command	05: 0000	05: 0000
1-06	Reverse reset command	06: 0000	06: 0000
1-07	Forward speed limit	07: 0000	07: 0000
1-08	Reverse speed limit	08: 0000	08: 0000
1-09	Forward acceleration time	09: 0000	09: 0000
1-10	Reverse acceleration time	10: 0000	10: 0000
1-11	Forward deceleration time	11: 0000	11: 0000
1-12	Reverse deceleration time	12: 0000	12: 0000
1-13	Forward stop time	13: 0000	13: 0000
1-14	Reverse stop time	14: 0000	14: 0000
1-15	Forward reset time	15: 0000	15: 0000
1-16	Reverse reset time	16: 0000	16: 0000
1-17	Forward speed limit	17: 0000	17: 0000
1-18	Reverse speed limit	18: 0000	18: 0000
1-19	Forward acceleration time	19: 0000	19: 0000
1-20	Reverse acceleration time	20: 0000	20: 0000
1-21	Forward deceleration time	21: 0000	21: 0000
1-22	Reverse deceleration time	22: 0000	22: 0000
1-23	Forward stop time	23: 0000	23: 0000
1-24	Reverse stop time	24: 0000	24: 0000
1-25	Forward reset time	25: 0000	25: 0000
1-26	Reverse reset time	26: 0000	26: 0000
1-27	Forward speed limit	27: 0000	27: 0000
1-28	Reverse speed limit	28: 0000	28: 0000
1-29	Forward acceleration time	29: 0000	29: 0000
1-30	Reverse acceleration time	30: 0000	30: 0000
1-31	Forward deceleration time	31: 0000	31: 0000
1-32	Reverse deceleration time	32: 0000	32: 0000
1-33	Forward stop time	33: 0000	33: 0000
1-34	Reverse stop time	34: 0000	34: 0000
1-35	Forward reset time	35: 0000	35: 0000
1-36	Reverse reset time	36: 0000	36: 0000
1-37	Forward speed limit	37: 0000	37: 0000
1-38	Reverse speed limit	38: 0000	38: 0000
1-39	Forward acceleration time	39: 0000	39: 0000
1-40	Reverse acceleration time	40: 0000	40: 0000
1-41	Forward deceleration time	41: 0000	41: 0000
1-42	Reverse deceleration time	42: 0000	42: 0000
1-43	Forward stop time	43: 0000	43: 0000
1-44	Reverse stop time	44: 0000	44: 0000
1-45	Forward reset time	45: 0000	45: 0000
1-46	Reverse reset time	46: 0000	46: 0000
1-47	Forward speed limit	47: 0000	47: 0000
1-48	Reverse speed limit	48: 0000	48: 0000
1-49	Forward acceleration time	49: 0000	49: 0000
1-50	Reverse acceleration time	50: 0000	50: 0000
1-51	Forward deceleration time	51: 0000	51: 0000
1-52	Reverse deceleration time	52: 0000	52: 0000
1-53	Forward stop time	53: 0000	53: 0000
1-54	Reverse stop time	54: 0000	54: 0000
1-55	Forward reset time	55: 0000	55: 0000
1-56	Reverse reset time	56: 0000	56: 0000
1-57	Forward speed limit	57: 0000	57: 0000
1-58	Reverse speed limit	58: 0000	58: 0000
1-59	Forward acceleration time	59: 0000	59: 0000
1-60	Reverse acceleration time	60: 0000	60: 0000
1-61	Forward deceleration time	61: 0000	61: 0000
1-62	Reverse deceleration time	62: 0000	62: 0000
1-63	Forward stop time	63: 0000	63: 0000
1-64	Reverse stop time	64: 0000	64: 0000
1-65	Forward reset time	65: 0000	65: 0000
1-66	Reverse reset time	66: 0000	66: 0000
1-67	Forward speed limit	67: 0000	67: 0000
1-68	Reverse speed limit	68: 0000	68: 0000
1-69	Forward acceleration time	69: 0000	69: 0000
1-70	Reverse acceleration time	70: 0000	70: 0000
1-71	Forward deceleration time	71: 0000	71: 0000
1-72	Reverse deceleration time	72: 0000	72: 0000
1-73	Forward stop time	73: 0000	73: 0000
1-74	Reverse stop time	74: 0000	74: 0000
1-75	Forward reset time	75: 0000	75: 0000
1-76	Reverse reset time	76: 0000	76: 0000
1-77	Forward speed limit	77: 0000	77: 0000
1-78	Reverse speed limit	78: 0000	78: 0000
1-79	Forward acceleration time	79: 0000	79: 0000
1-80	Reverse acceleration time	80: 0000	80: 0000
1-81	Forward deceleration time	81: 0000	81: 0000
1-82	Reverse deceleration time	82: 0000	82: 0000
1-83	Forward stop time	83: 0000	83: 0000
1-84	Reverse stop time	84: 0000	84: 0000
1-85	Forward reset time	85: 0000	85: 0000
1-86	Reverse reset time	86: 0000	86: 0000
1-87	Forward speed limit	87: 0000	87: 0000
1-88	Reverse speed limit	88: 0000	88: 0000
1-89	Forward acceleration time	89: 0000	89: 0000
1-90	Reverse acceleration time	90: 0000	90: 0000
1-91	Forward deceleration time	91: 0000	91: 0000
1-92	Reverse deceleration time	92: 0000	92: 0000
1-93	Forward stop time	93: 0000	93: 0000
1-94	Reverse stop time	94: 0000	94: 0000
1-95	Forward reset time	95: 0000	95: 0000
1-96	Reverse reset time	96: 0000	96: 0000
1-97	Forward speed limit	97: 0000	97: 0000
1-98	Reverse speed limit	98: 0000	98: 0000
1-99	Forward acceleration time	99: 0000	99: 0000
1-100	Reverse acceleration time	100: 0000	100: 0000

### Group 2: Fan Parameters

No.	Parameters	Settings	Factory Default
2-01	Forward operation command	01: 0000	01: 0000
2-02	Reverse operation command	02: 0000	02: 0000
2-03	Forward stop command	03: 0000	03: 0000
2-04	Reverse stop command	04: 0000	04: 0000
2-05	Forward reset command	05: 0000	05: 0000
2-06	Reverse reset command	06: 0000	06: 0000
2-07	Forward speed limit	07: 0000	07: 0000
2-08	Reverse speed limit	08: 0000	08: 0000
2-09	Forward acceleration time	09: 0000	09: 0000
2-10	Reverse acceleration time	10: 0000	10: 0000
2-11	Forward deceleration time	11: 0000	11: 0000
2-12	Reverse deceleration time	12: 0000	12: 0000
2-13	Forward stop time	13: 0000	13: 0000
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2-21	Forward deceleration time	21: 0000	21: 0000
2-22	Reverse deceleration time	22: 0000	22: 0000
2-23	Forward stop time	23: 0000	23: 0000
2-24	Reverse stop time	24: 0000	24: 0000
2-25	Forward reset time	25: 0000	25: 0000
2-26	Reverse reset time	26: 0000	26: 0000
2-27	Forward speed limit	27: 0000	27: 0000
2-28	Reverse speed limit	28: 0000	28: 0000
2-29	Forward acceleration time	29: 0000	29: 0000
2-30	Reverse acceleration time	30: 0000	30: 0000
2-31	Forward deceleration time	31: 0000	31: 0000
2-32	Reverse deceleration time	32: 0000	32: 0000
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2-34	Reverse stop time	34: 0000	34: 0000
2-35	Forward reset time	35: 0000	35: 0000
2-36	Reverse reset time	36: 0000	36: 0000
2-37	Forward speed limit	37: 0000	37: 0000
2-38	Reverse speed limit	38: 0000	38: 0000
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2-44	Reverse stop time	44: 0000	44: 0000
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2-54	Reverse stop time	54: 0000	54: 0000
2-55	Forward reset time	55: 0000	55: 0000
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2-111	Forward deceleration time	111: 0000	111: 0000
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2-114	Reverse stop time	114: 0000	114: 0000
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2-117	Forward speed limit	117: 0000	117: 0000
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2-202	Reverse deceleration time	202: 0000	202: 0000
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2-204	Reverse stop time	204: 0000	204: 0000
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2-224	Reverse stop time	224: 0000	224: 0000
2-225	Forward reset time	225: 0000	225: 0000
2-226	Reverse reset time	226: 0000	226: 0000
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2-228	Reverse speed limit	228: 0000	228: 0000
2-229	Forward acceleration time	229: 0000	229: 0000
2-230	Reverse acceleration time	230: 0000	230: 0000
2-231	Forward deceleration time	231: 0000	231: 0000
2-232	Reverse deceleration time	232: 0000	232: 0000
2-233	Forward stop time	233: 0000	233: 0000
2-234	Reverse stop time	234: 0000	234: 0000
2-235	Forward reset time	235: 0000	235: 0000
2-236	Reverse reset time	236: 0000	236: 0000
2-237	Forward speed limit	237: 0000	237: 0000
2-238	Reverse speed limit	238: 0000	238: 0000
2-239	Forward acceleration time	239: 0000	239: 0000
2-240	Reverse acceleration time	240: 0000	240: 0000
2-241	Forward deceleration time	241: 0000	241: 0000
2-242	Reverse deceleration time	242: 0000	242: 0000
2-243	Forward stop time	243: 0000	243: 0000
2-244	Reverse stop time	244: 0000	244: 0000
2-245	Forward reset time	245: 0000	245: 0000
2-246	Reverse reset time	246: 0000	246: 0000
2-247	Forward speed limit	247: 0000	247: 0000
2-248	Reverse speed limit	248: 0000	248: 0000
2-249	Forward acceleration time	249: 0000	249: 0000
2-250	Reverse acceleration time	250: 0000	250: 0000
2-251	Forward deceleration time	251: 0000	251: 0000

# Delta Instruction Manual

**William Raimond Baird**



## **Delta Instruction Manual:**

## **Delta Instruction Manual** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Delta Instruction Manual**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

<https://yousky7.com/About/scholarship/HomePages/beginner%20tutorial%20for%20best%20ai%20writing%20assistant%20tips.pdf>

### **Table of Contents Delta Instruction Manual**

1. Understanding the eBook Delta Instruction Manual
  - The Rise of Digital Reading Delta Instruction Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Delta Instruction Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Delta Instruction Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Delta Instruction Manual
  - Personalized Recommendations
  - Delta Instruction Manual User Reviews and Ratings
  - Delta Instruction Manual and Bestseller Lists

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  - Delta Instruction Manual eBook Subscription Services
  - Delta Instruction Manual Budget-Friendly Options
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  - Delta Instruction Manual Compatibility with Devices
  - Delta Instruction Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Delta Instruction Manual
  - Highlighting and Note-Taking Delta Instruction Manual
  - Interactive Elements Delta Instruction Manual
8. Staying Engaged with Delta Instruction Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Delta Instruction Manual
9. Balancing eBooks and Physical Books Delta Instruction Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Delta Instruction Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Delta Instruction Manual
  - Setting Reading Goals Delta Instruction Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Delta Instruction Manual
  - Fact-Checking eBook Content of Delta Instruction Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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