

Chapter1

Product Configuration and Main Function

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loadfile=read&board=4991f72705a71&page=&Seq=2&No=2](http://ismecapion.com/english2/dataroom/data_01.php?loadfile=read&board=4991f72705a71&page=&Seq=2&No=2) adresine bakınız

1.1 Product Configuration

1.1.1	Checking Products	1-2
1.1.2	Identifying the Parts	1-4

1.2 System Composition

1.2.1	Summary	1-11
1.2.2	Position Operation Mode	1-13
1.2.3	Speed Operation Mode.....	1-14
1.2.4	Torque Operation Mode.....	1-15
1.2.5	Speed/Position Operation Mode	1-16
1.2.6	Speed/Torque Operation Mode	1-17

APD-VS[Standard Type] Manual

1.2.7	Position/Torque Operation Mode	1-18
1.3	Signal Explanation	1-19

1.1 Product Construction

1.1.1 Checking Products

- ① Check if the products are the right one you ordered.
 - Check the types marked in the nameplates of Servo Drive
 - Check the types marked in the nameplates of Servo Motor

2

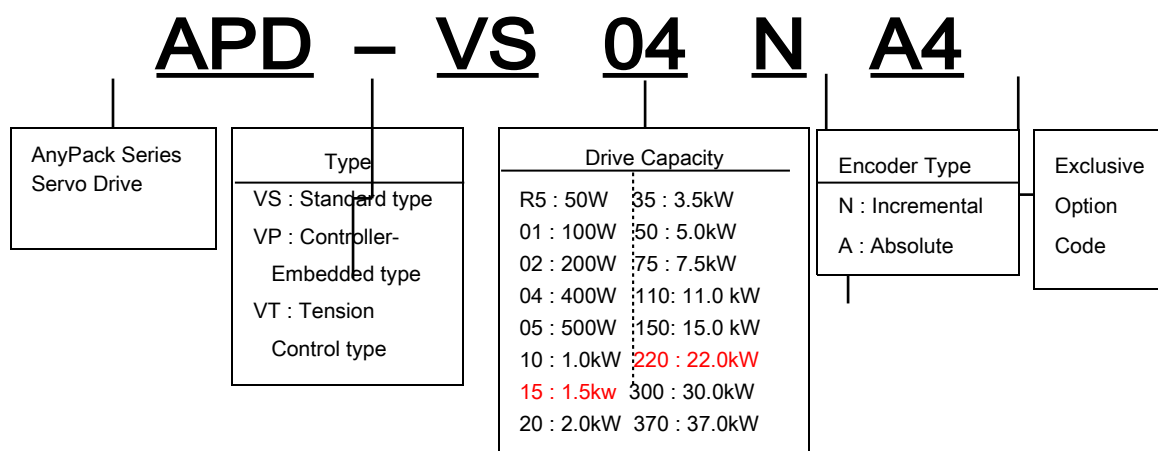
Check Product and Option Items.

- Check if the cable types and length are right.
- Check if the regenerative resistance is in accordance with the standard.
- Check if the motor shaft is correct.
- Check if the Oil Seal and Brake is correct.
- Check if the reducer/gearbox and reduction ratio is correct.
- Check if the Encoder type is correct.

- ③ Check the External Appearance
 - Check if there is no dust or moisture
 - Check if there is fading, contamination, damage, and disconnection
 - Check if the tightness of fitting & bolts are correct.
 - Check if there is no noise or excessive friction at rotating

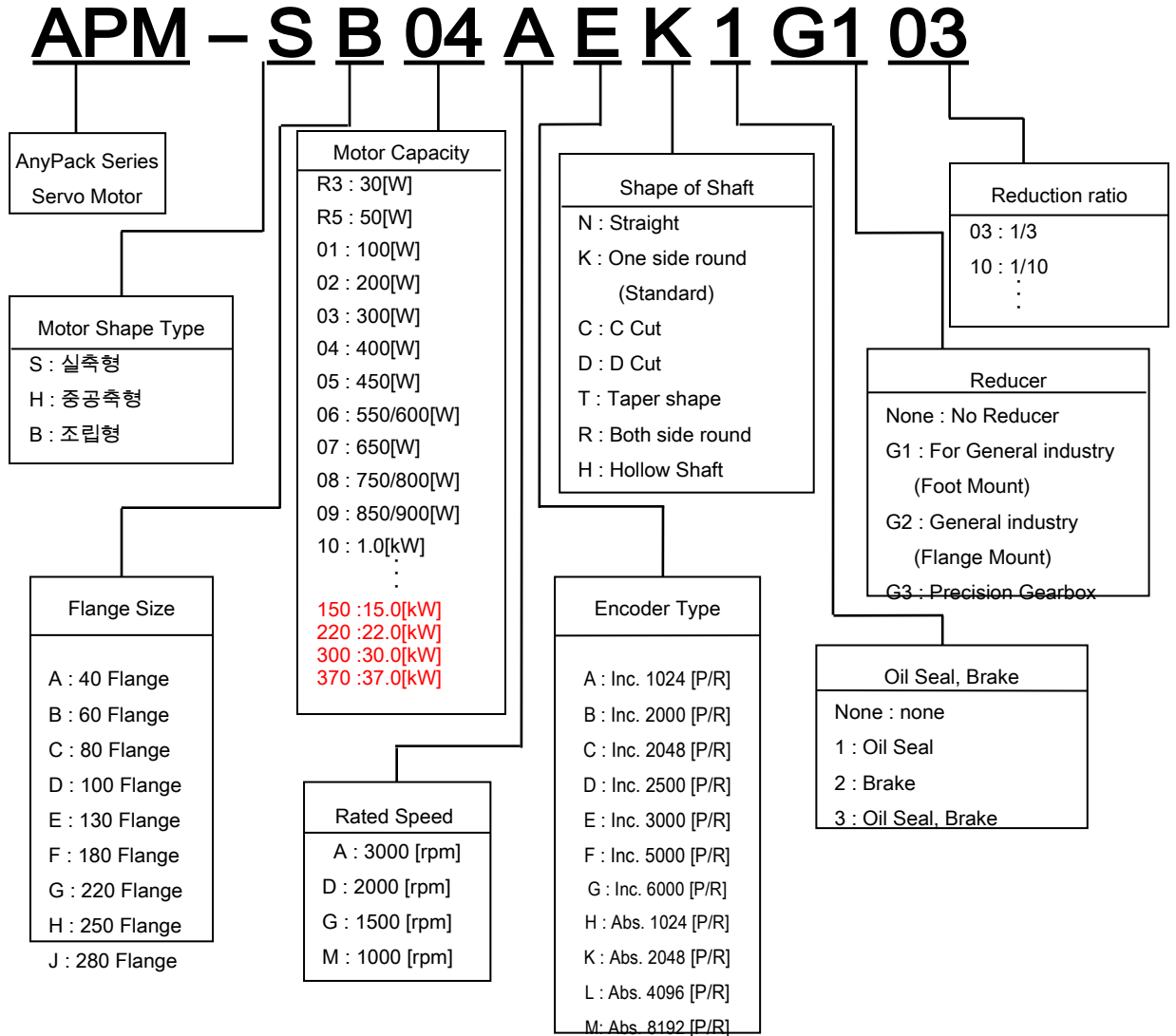
- Servo drive Type Designation

Chapter1 Product Configuration and Main Function



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■ Servo Motor Product Type

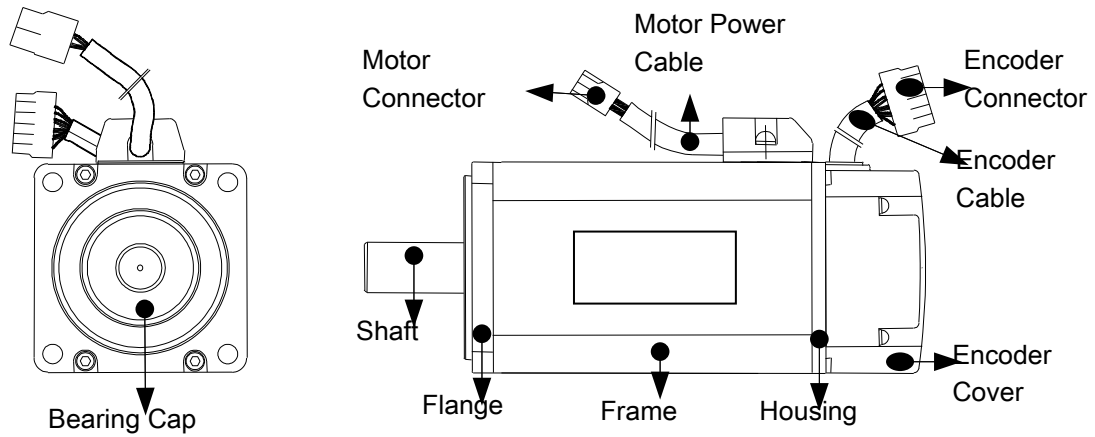


Chapter1 Product Configuration and Main Function

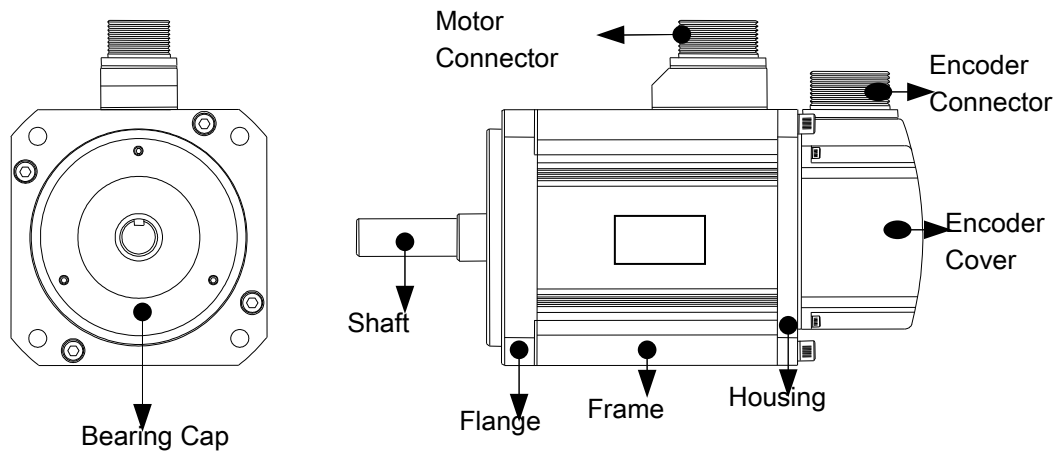
1.1.2 Identifying the Parts

■ Servo Motor

- Less than 80 Flange

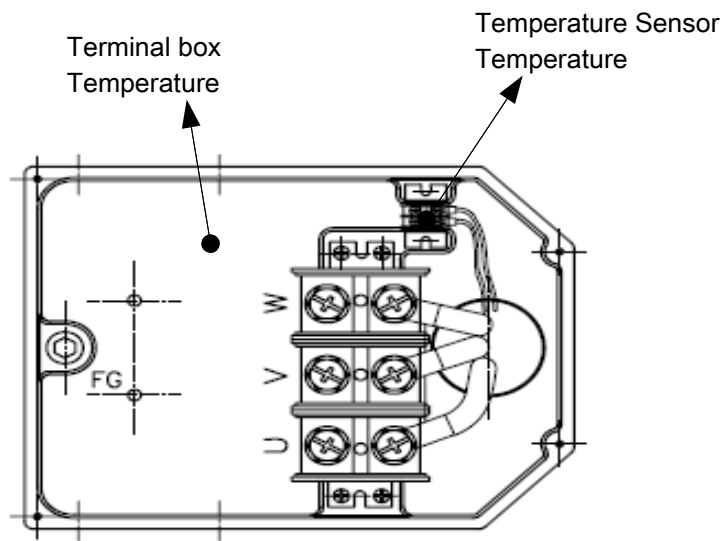
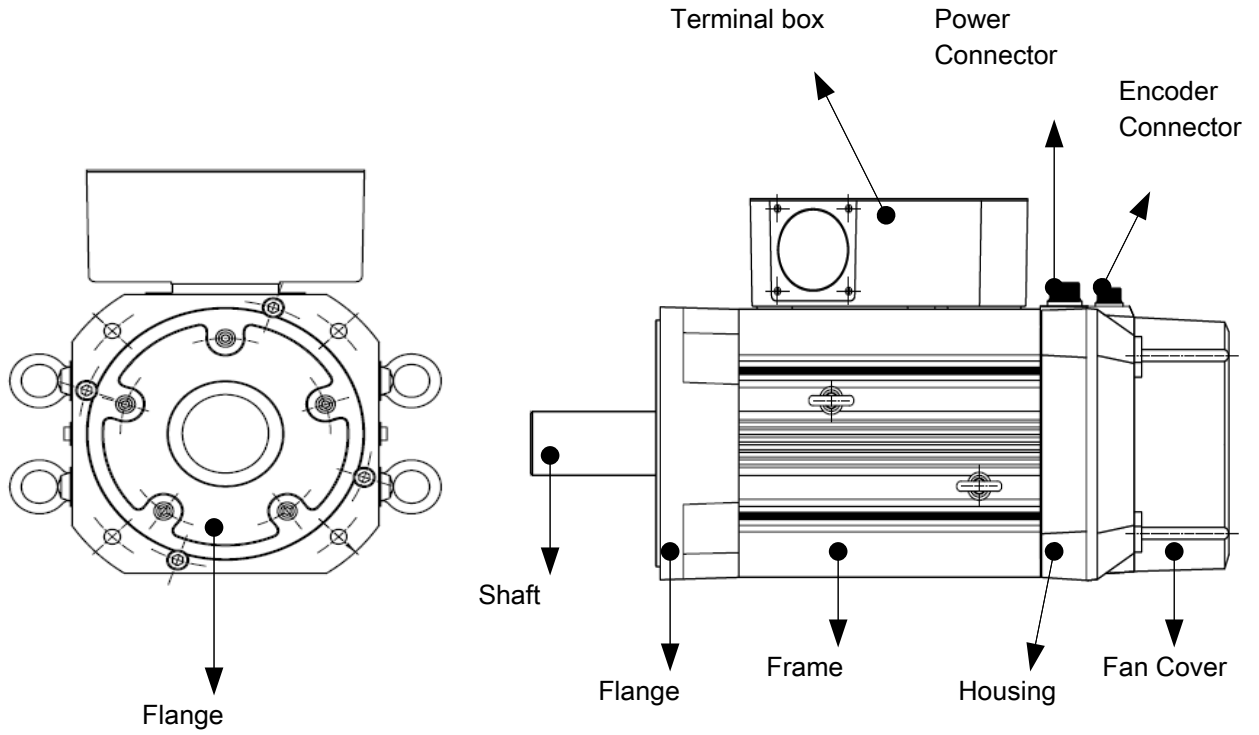


- More than 130 Flange



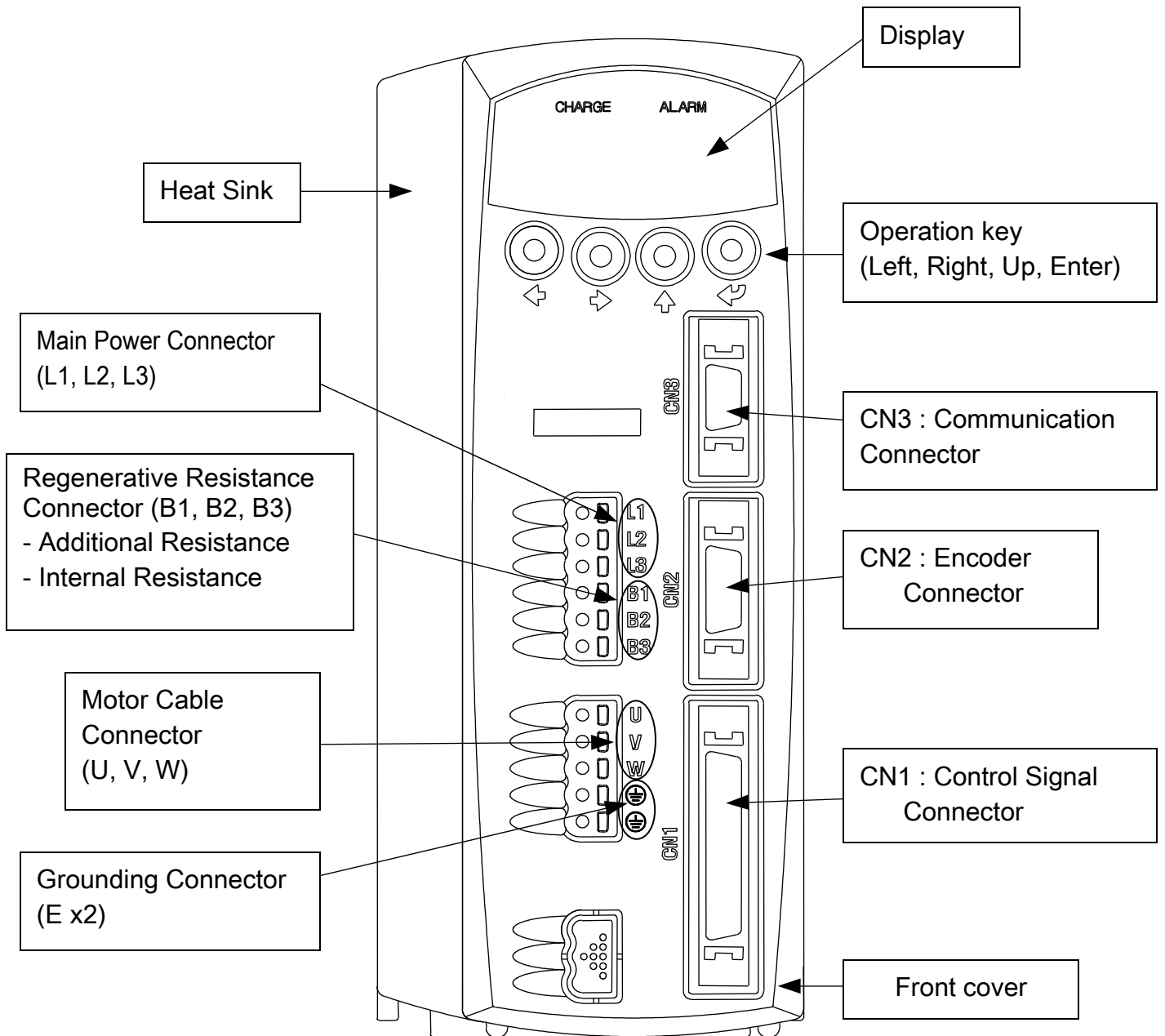
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- More than 250 Flange (22kW~37kW)



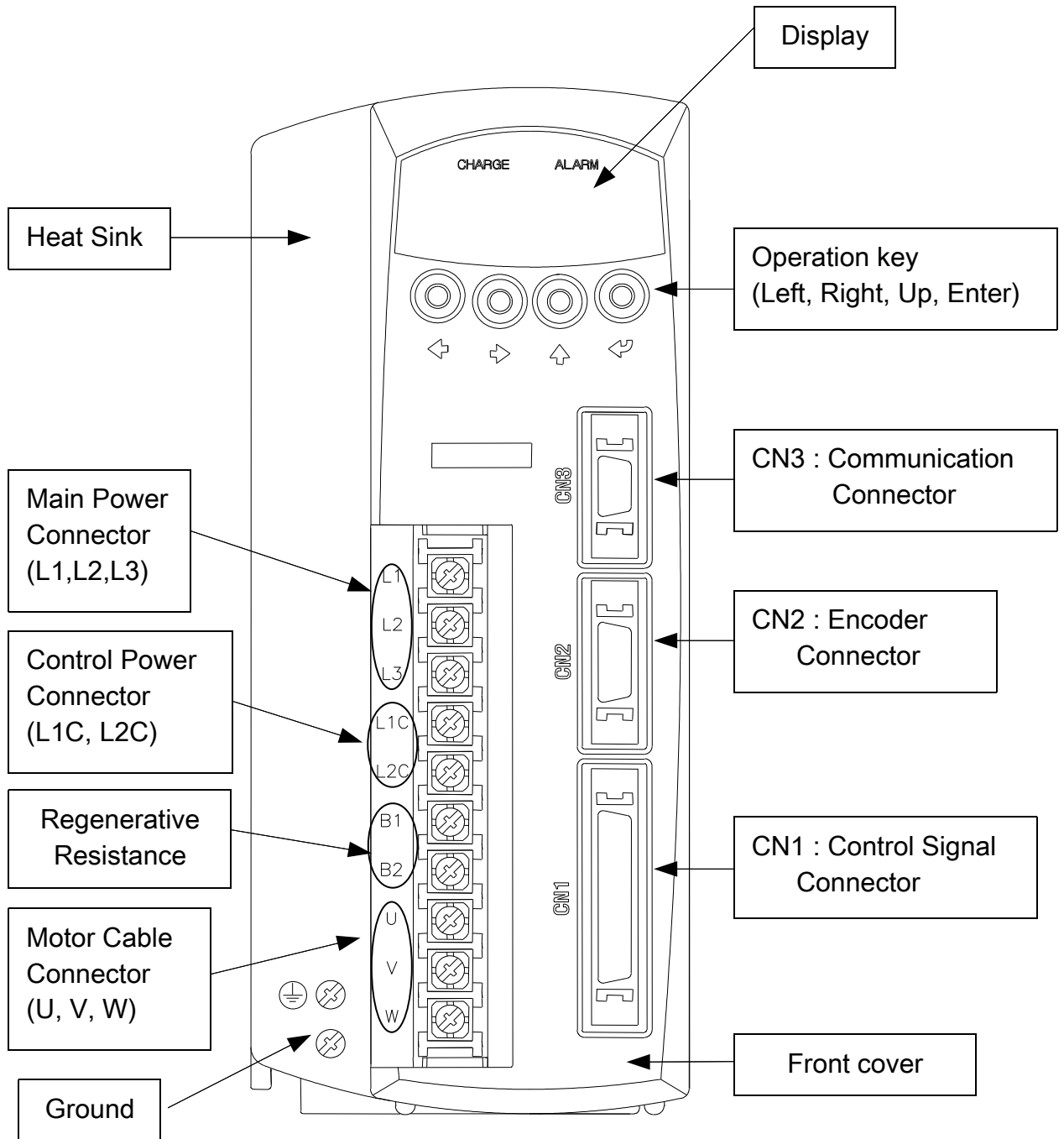
Chapter1 Product Configuration and Main Function

- Servo Drive
 - Small Capacity (less than APD-VS04)



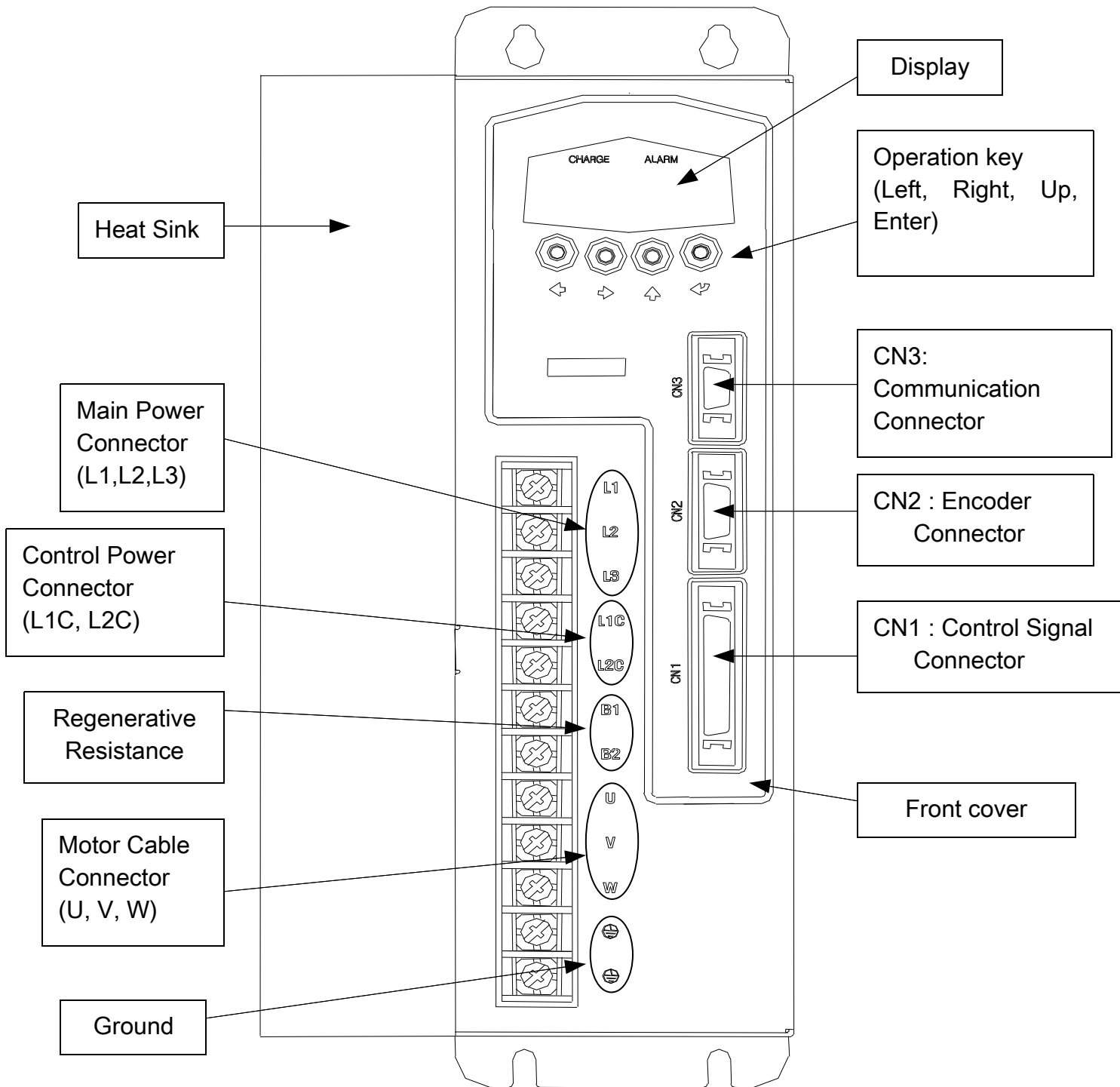
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- Medium Capacity (APD-VS05 ~10)



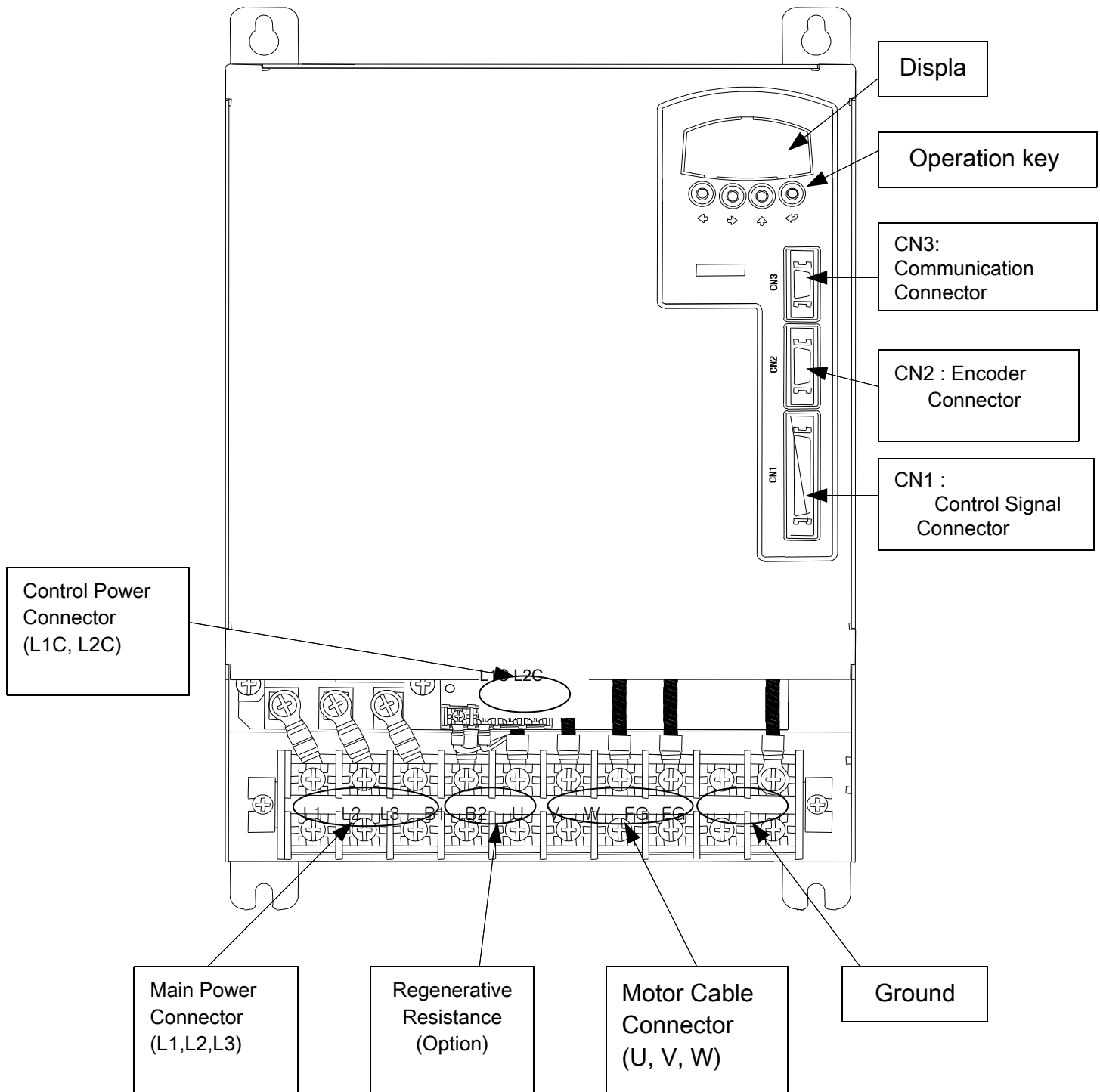
Chapter1 Product Configuration and Main Function

- Large Capacity (APD-VS15 ~75)



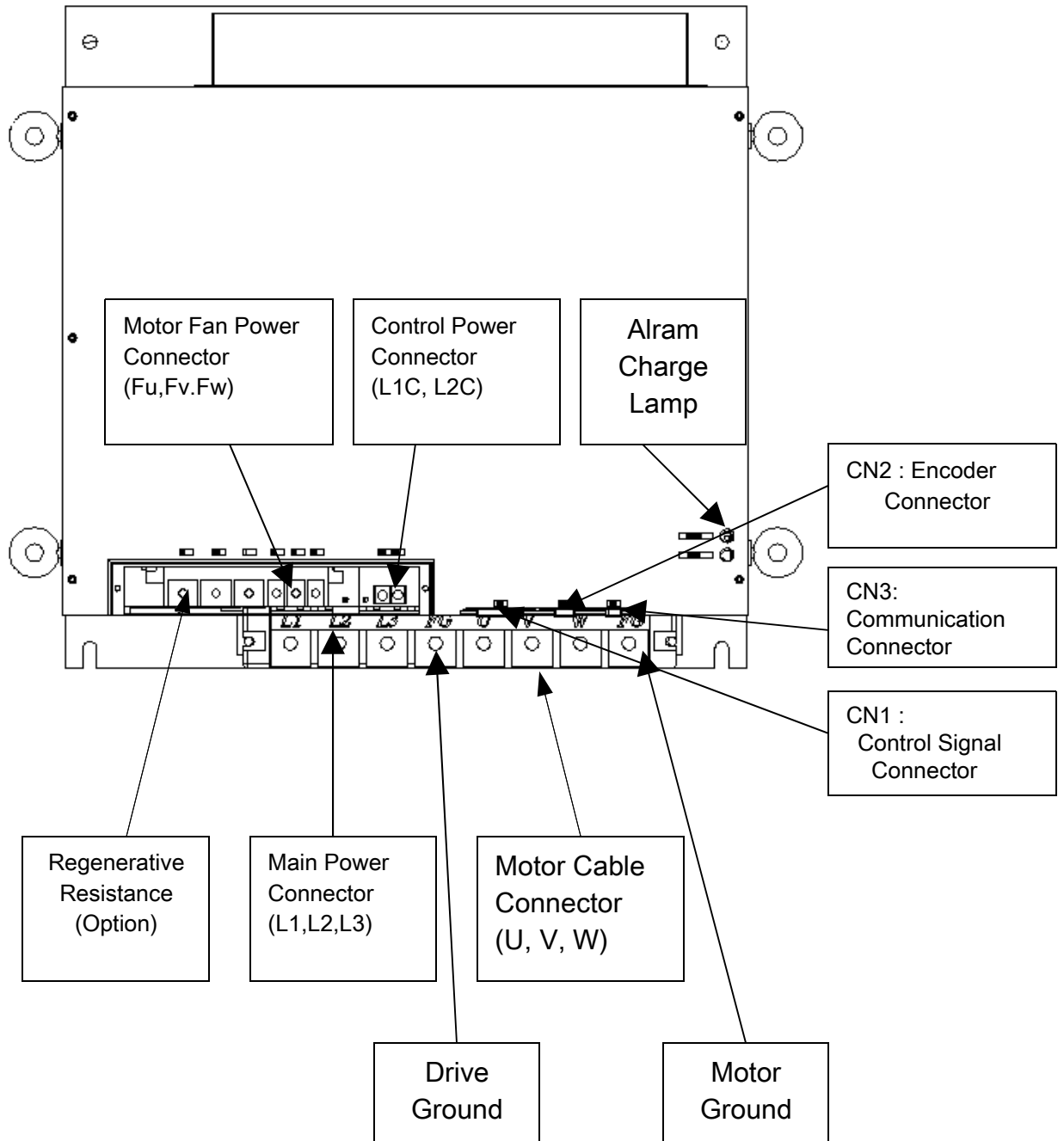
APD-VS[Standard Type] Manual

- Large Capacity (APD-VS110/VS150)



Chapter1 Product Configuration and Main Function

- Special Large Capacity (APD-VS220, APD-VS300, APD-VS370)



APD-VS[Standard Type] Manual

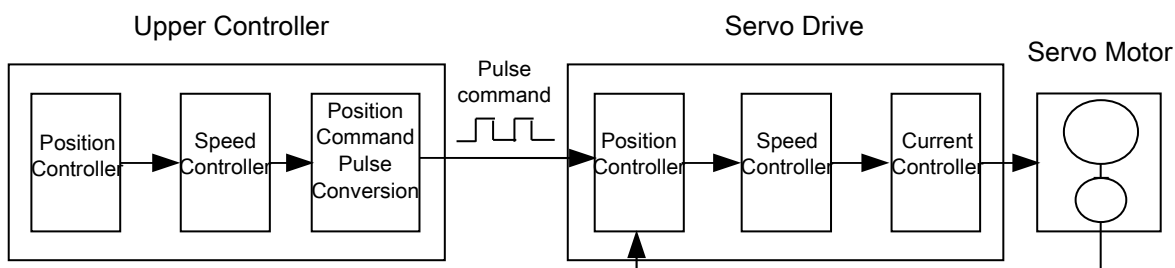
1.2 System Composition

1.2.1 Summary

Servo System can be variously used as per the interface with Upper controller.

1) Position Operation System

Operate Servo by pulse command that operates the position of servo motor by ration of encoder pulse compared to command pulse.



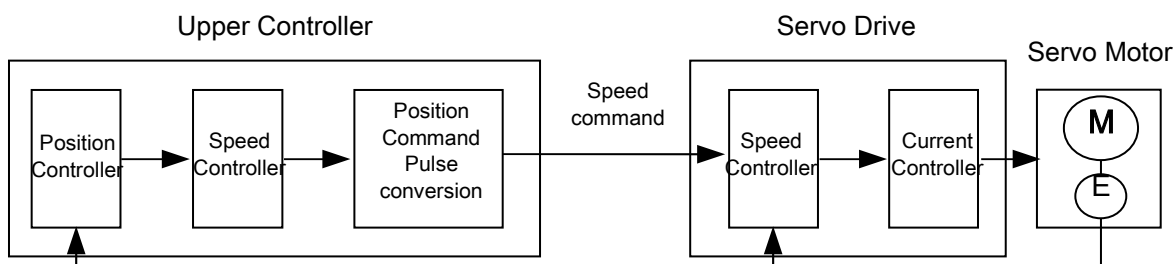
Strength : Because of pulse input by transfer unit, upper controller is simple.

Weakness : High speed rotating is difficult at using precise transfer unit

Response characteristics are not good by using various steps of controller.

2) Speed Operation System

Operating servo by speed command that is analog or digital speed command.



Strong point : Response of servo is fast.

Easy to control precisely

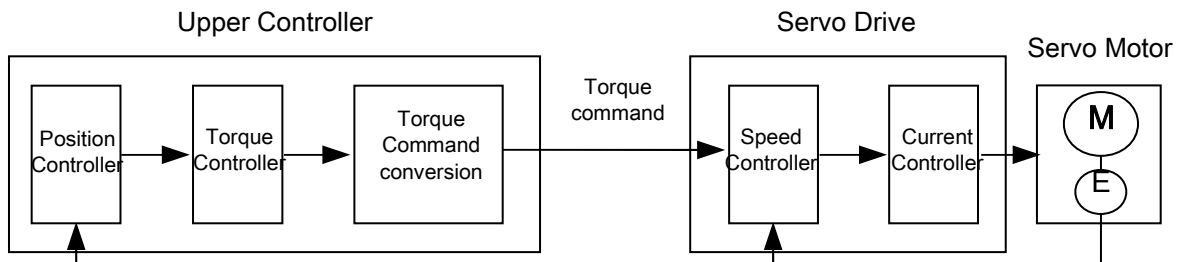
Weak point : Upper controller is complicate.

Chapter1 Product Configuration and Main Function

APD-VS[Standard Type] Manual

3) Torque Operation System

Operating Servo by torque command that is analog voltage.



Strength : Response of servo is fast.

Easy to control precisely

Weakness : Upper controller is complicate

4) Operation mode

According to interface with upper controller, Operating mode is as below

Operation Mode	System
0	Operating Torque mode
1	Operating Speed mode
2	Operating Position mode
3	Operating Speed/Position mode by selecting connector
4	Operating Speed/Torque mode by selecting connector
5	Operating Position/Torque mode by selecting connector

* Operation mode is set up on menu [PE-601]