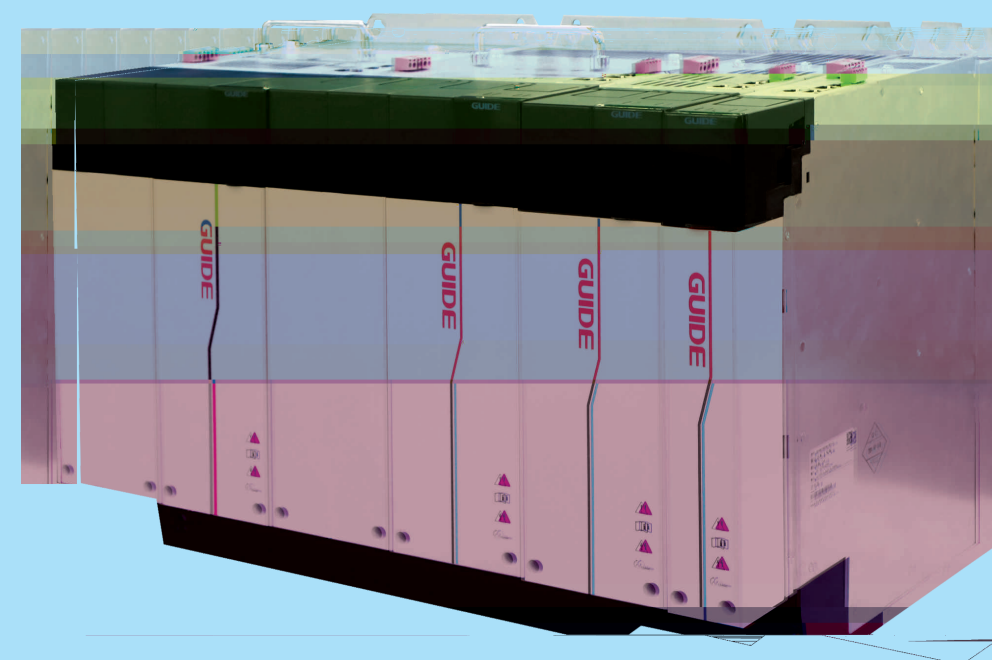


## HF681N系列书本型多传动



**GUIDE**

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400-0077-570

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# ABOUT US

301633) 是工信部

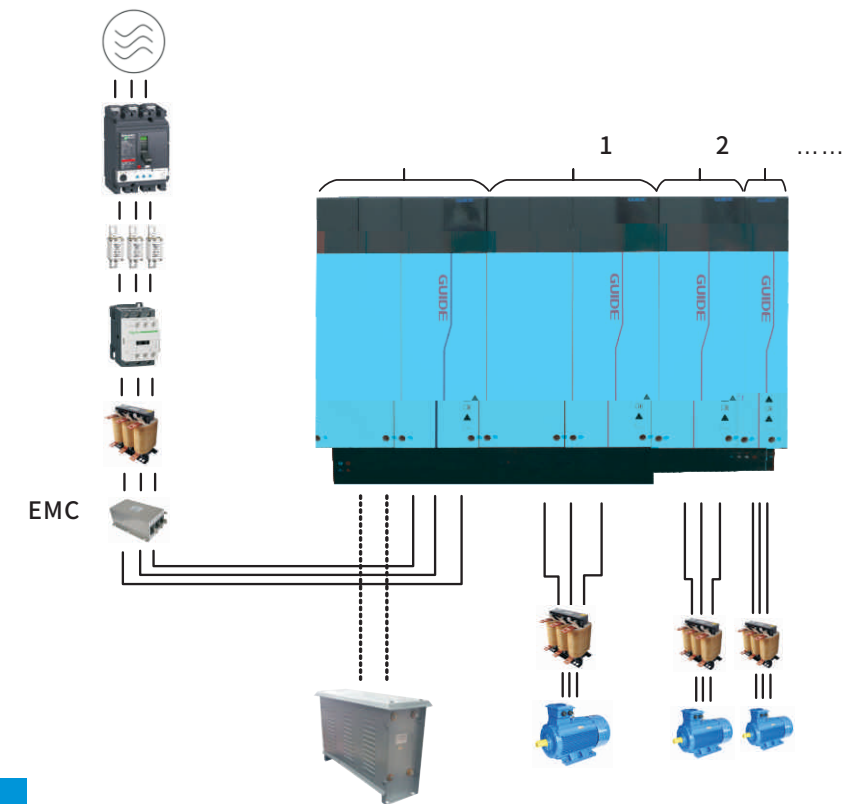
“ ”

A 10x10 grid of numbers. The numbers are arranged in a pattern that suggests a multiplication table, but with some variations. The top row contains the numbers 1, 10, 100, 1000, 10000, 100000, 1000000, 10000000, 100000000, and 1000000000. The second row contains 10, 100, 1000, 10000, 100000, 1000000, 10000000, 100000000, 1000000000, and 10000000000. The third row contains 100, 1000, 10000, 100000, 1000000, 10000000, 100000000, 1000000000, 10000000000, and 100000000000. The fourth row contains 1000, 10000, 100000, 1000000, 10000000, 100000000, 1000000000, 10000000000, 100000000000, and 1000000000000. The fifth row contains 10000, 100000, 1000000, 10000000, 100000000, 1000000000, 10000000000, 100000000000, 1000000000000, and 10000000000000. The sixth row contains 100000, 1000000, 10000000, 100000000, 1000000000, 10000000000, 100000000000, 1000000000000, 10000000000000, and 100000000000000. The seventh row contains 1000000, 10000000, 100000000, 1000000000, 10000000000, 100000000000, 1000000000000, 10000000000000, 100000000000000, and 1000000000000000. The eighth row contains 10000000, 100000000, 1000000000, 10000000000, 100000000000, 1000000000000, 10000000000000, 100000000000000, 1000000000000000, and 10000000000000000. The ninth row contains 100000000, 1000000000, 10000000000, 100000000000, 1000000000000, 10000000000000, 100000000000000, 1000000000000000, 10000000000000000, and 100000000000000000. The tenth row contains 1000000000, 10000000000, 100000000000, 1000000000000, 10000000000000, 100000000000000, 1000000000000000, 10000000000000000, 100000000000000000, and 1000000000000000000. The number 100 is highlighted in the top-left corner.

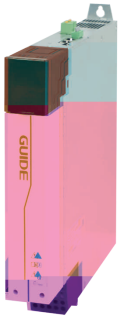
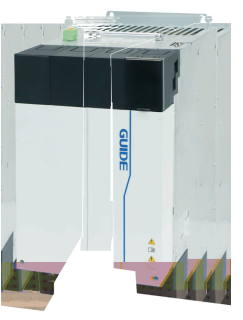


# HF681N

HF681N

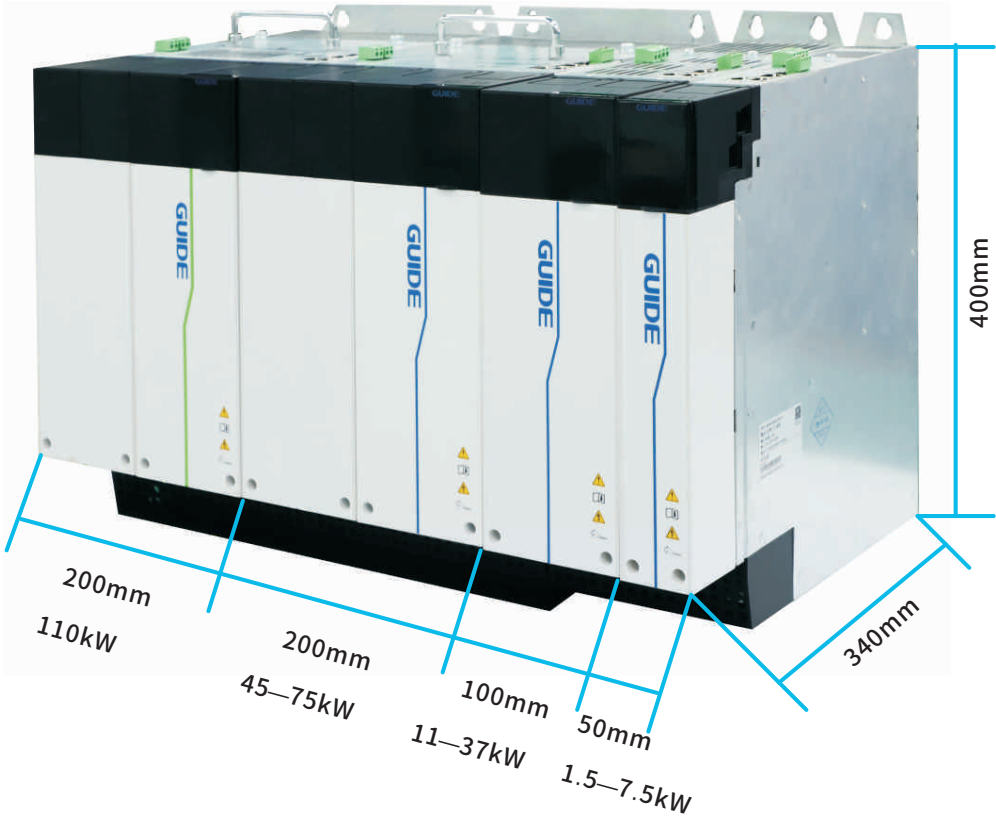


|                  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 外观               |  |  |  |  |
|                  | 整流单元                                                                                  |                                                                                       |                                                                                       |                                                                                       |
| 功率等级             | 22kW                                                                                  | 45kW                                                                                  | 110kW                                                                                 | 160kW                                                                                 |
| 尺寸<br>(WxDxH) mm | 100x340x400                                                                           | 100x340x400                                                                           | 200x340x400                                                                           | 300x340x400                                                                           |

|                  |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 外观               |  |  |  |  |
|                  | 逆变单元                                                                              |                                                                                   |                                                                                    |                                                                                     |
| 功率等级             | 1. 5~7. 5kW                                                                       | 11~37kW                                                                           | 45~75kW                                                                            | 90~110kW                                                                            |
| 尺寸<br>(WxDxH) mm | 50x340x400                                                                        | 100x340x400                                                                       | 200x340x400                                                                        | 300x340x400                                                                         |



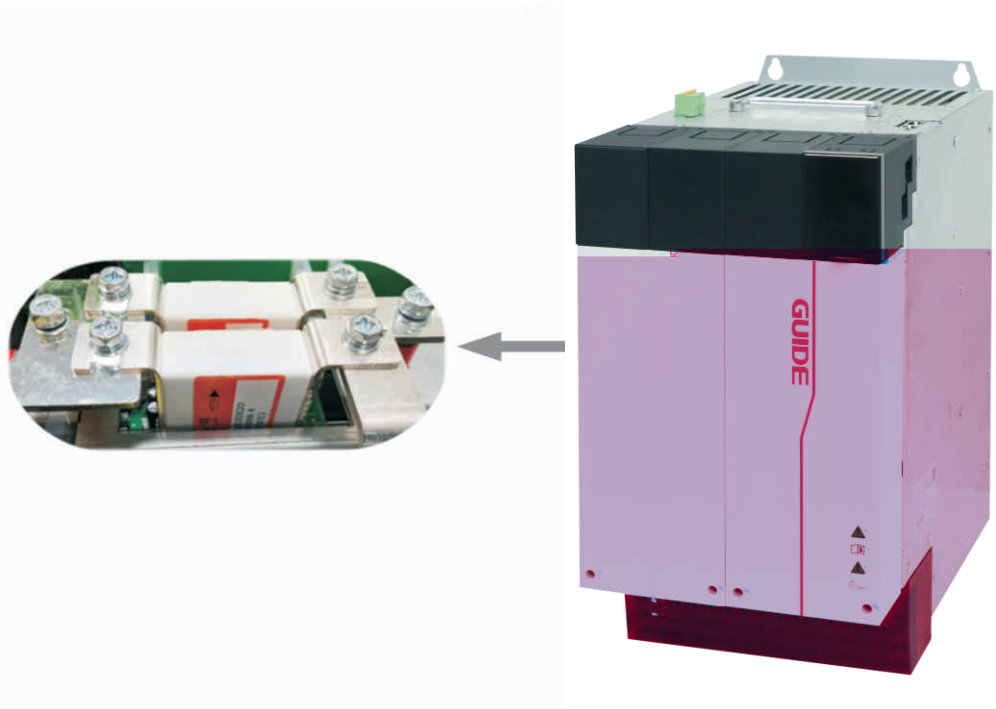
20%

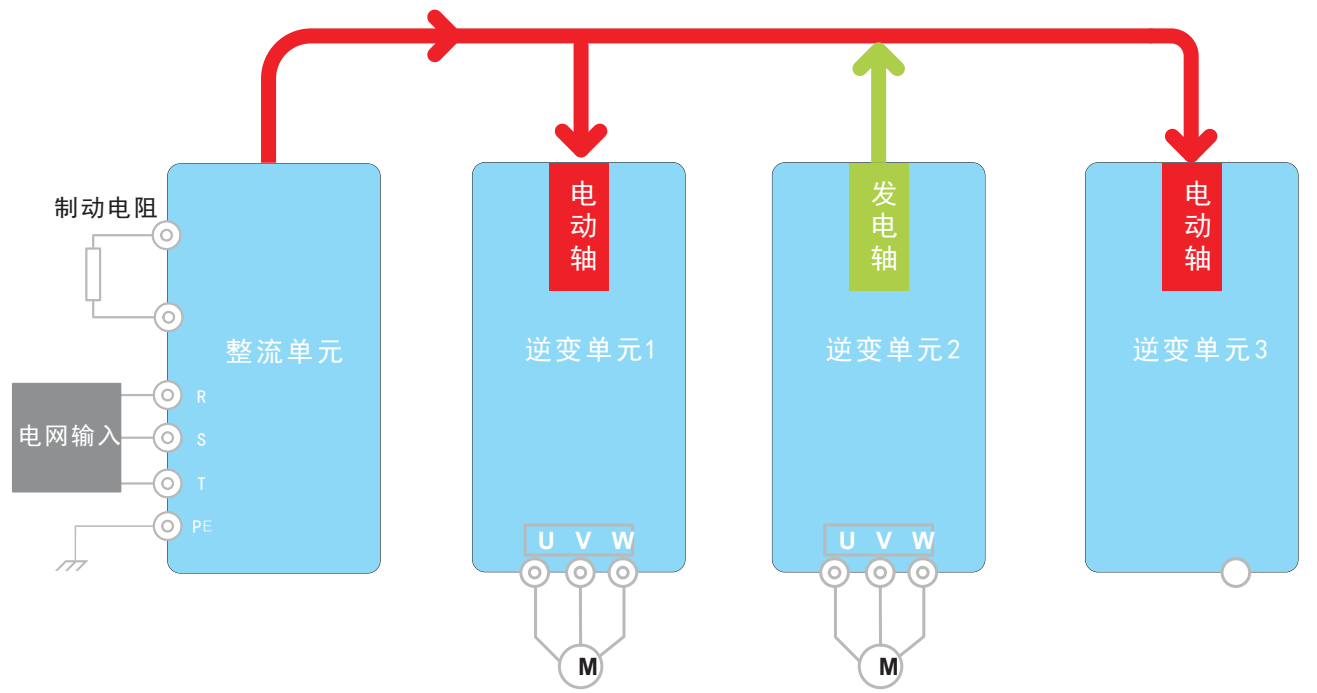
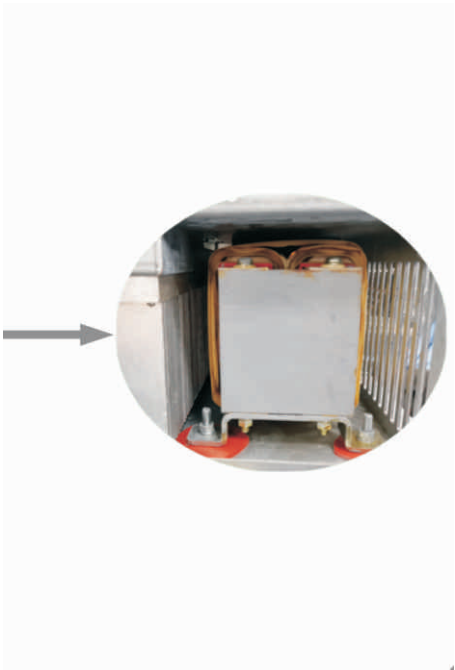


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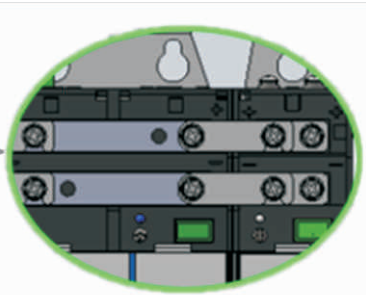


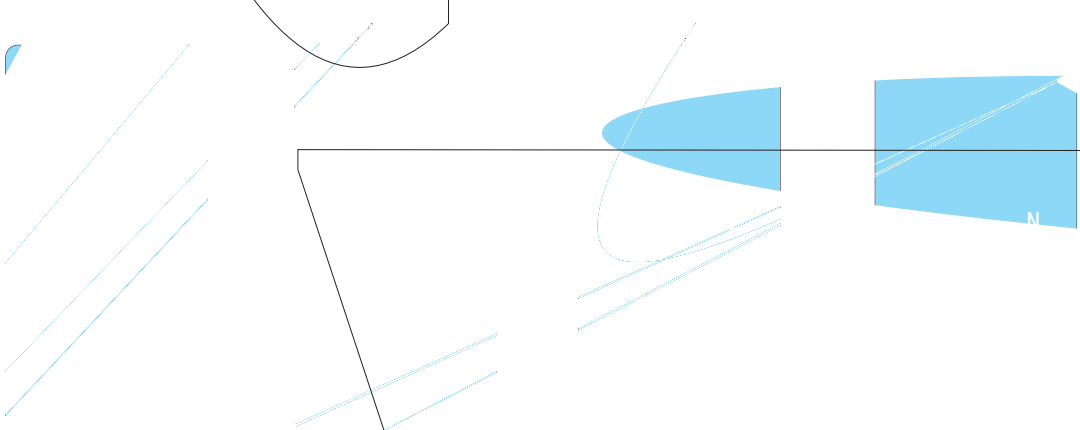
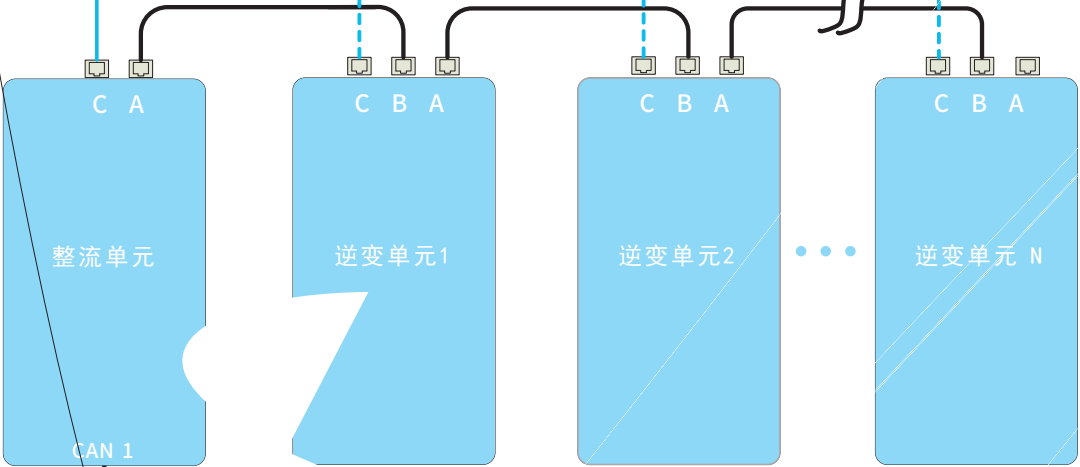
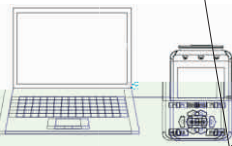
• 75kW





Mini





|                   | DC (A) | AC (A) | (kW) |    |
|-------------------|--------|--------|------|----|
| HF681N03M-1R5 - 4 | 4      | 4      | 1.5  | M1 |
| HF681N03M-2R2 - 4 | 6      | 5.7    | 2.2  |    |
| HF681N03M-3R7 - 4 | 11     | 10.2   | 3.7  |    |
| HF681N03M-5R5 - 4 | 16     | 15     | 5.5  |    |
| HF681N03M-7R5 - 4 | 19     | 18     | 7.5  |    |
| HF681N03M-011 - 4 | 25     | 24     | 11   | M2 |
| HF681N03M-015 - 4 | 34     | 32     | 15   |    |
| HF681N03M-018 - 4 | 41     | 38     | 18.5 |    |
| HF681N03M-022 - 4 | 51     | 47     | 22   |    |
| HF681N03M-030 - 4 | 71     | 65     | 30   |    |
| HF681N03M-037 - 4 | 82     | 75     | 37   | M3 |
| HF681N03M-045 - 4 | 104    | 94     | 45   |    |
| HF681N03M-055 - 4 | 127    | 115    | 55   |    |
| HF681N03M-075 - 4 | 171    | 155    | 75   | M4 |
| HF681N03M-090 - 4 | 210    | 188    | 90   |    |
| HF681N03M-110 - 4 | 240    | 215    | 110  |    |

| PG         | GDHF681N4PG01A1 | PG       |
|------------|-----------------|----------|
| PN         | GDHF681N4PN02A1 | PROFINET |
| MODBUS-RTU | GDHF681N4MB01A1 | MODBUS   |
| IO         | GDHF681N4IO01A1 | DI DO    |

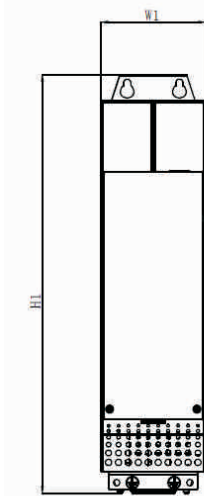
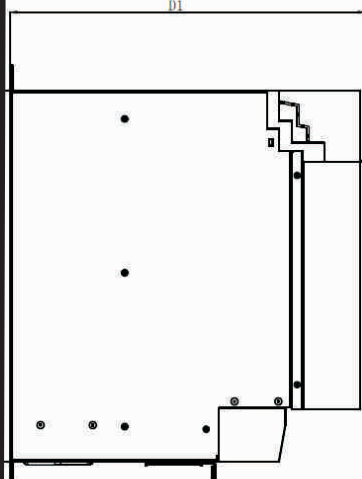
整流单元选型

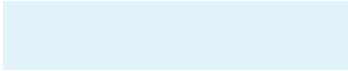
|                    | kW  | (A) | (A)  |    |
|--------------------|-----|-----|------|----|
| HF681N01M-22- 4+X  | 22  | 49  | 56   | K2 |
| HF681N01M-45- 4+X  | 45  | 89  | 109  |    |
| HF681N01M-110- 4+X | 110 | 196 | 24 5 | K3 |
| HF681N01M-160- 4+X | 160 | 292 | 358  | K4 |

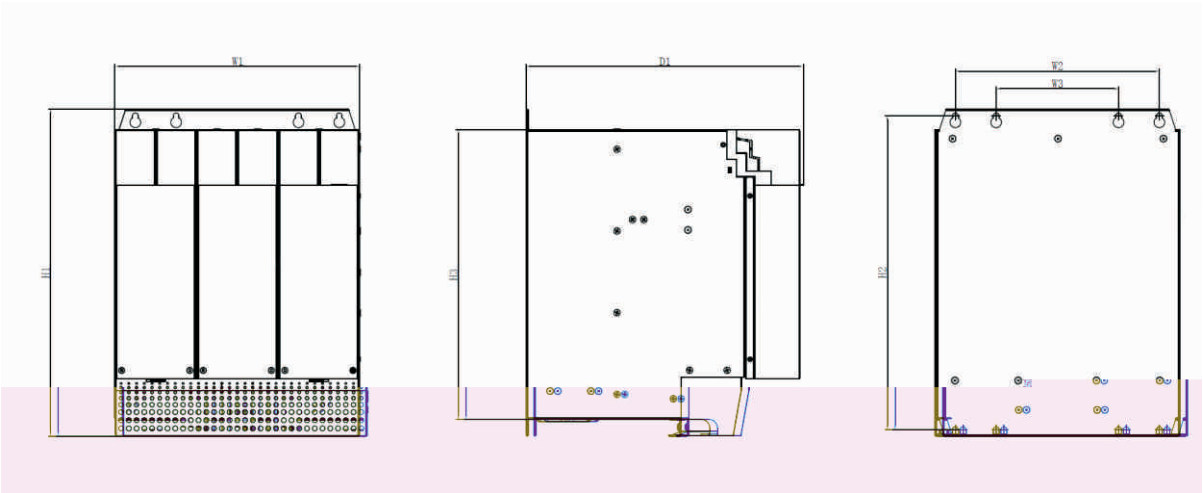
技术参数

|  |     | 380V 480V                              |
|--|-----|----------------------------------------|
|  |     | 50/60Hz                                |
|  |     | - 15% +10%                             |
|  |     | fLN±2 ± 4<br>≤2 fLN/s                  |
|  |     | 0                                      |
|  |     | 1                                      |
|  |     | 0 300Hz                                |
|  |     | 1kHz 10kHz                             |
|  |     | 0.01Hz x0.1%                           |
|  |     | (VC) (SVC) V/F                         |
|  | V/F |                                        |
|  |     | PG PG                                  |
|  |     | 300Hz                                  |
|  |     | 0Hz/200%(VC SVC) 0.8Hz/150%(V/F)       |
|  |     | 1:500(SVC) 1:1000(VC)                  |
|  |     | ± 0.02% (VC) ± 0.2% (SVC) ± 0.5% (V/F) |
|  |     | 150% 5 1                               |

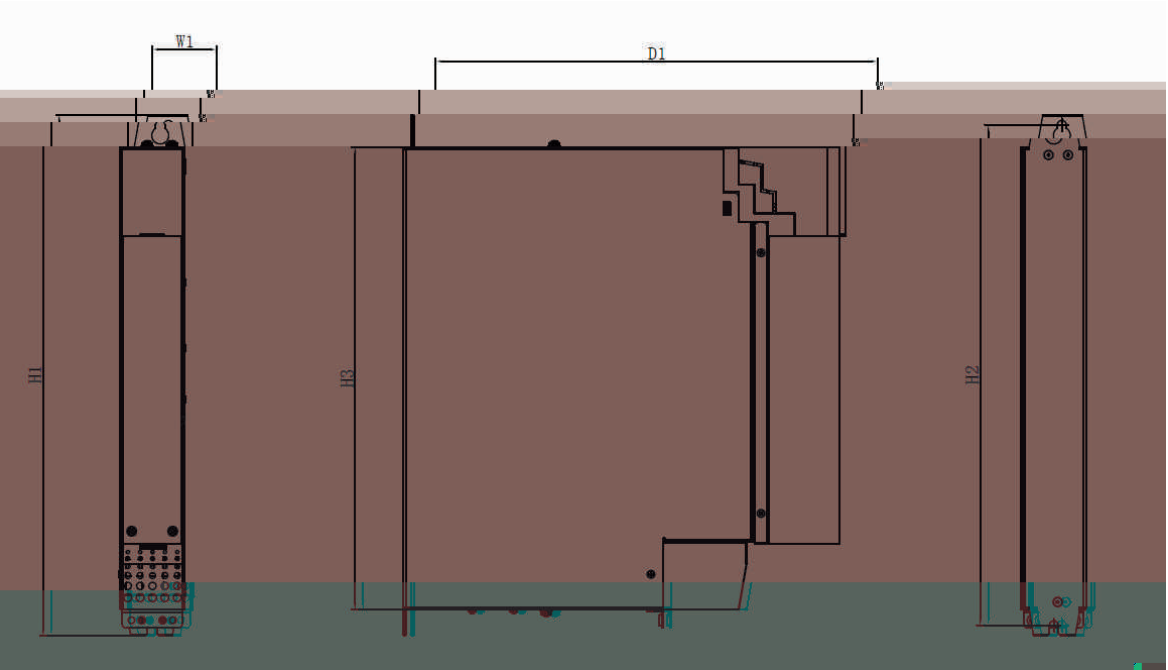
|  | PID |                          |  |  |  |
|--|-----|--------------------------|--|--|--|
|  |     | PID                      |  |  |  |
|  |     | / /                      |  |  |  |
|  |     | 43 DI<br>8 DI 2 AI 2 STO |  |  |  |
|  |     | 30 DO<br>5 DO 2 AO       |  |  |  |
|  | LED |                          |  |  |  |
|  |     |                          |  |  |  |
|  |     |                          |  |  |  |
|  |     | 1000 1000 3000 100<br>1% |  |  |  |
|  |     | - 10 +40 40<br>1% 50     |  |  |  |
|  |     | 95%RH                    |  |  |  |
|  |     | - 20 +60 10-30           |  |  |  |
|  |     | 98%                      |  |  |  |
|  |     | IO PG                    |  |  |  |
|  |     | CAN                      |  |  |  |
|  |     | IP2                      |  |  |  |
|  |     |                          |  |  |  |
|  |     | 2                        |  |  |  |
|  |     | ≤ 80db                   |  |  |  |

|  |  |     |     |      |     |  |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|------|-----|-------------------------------------------------------------------------------------|--|
|                                                                                     |                                                                                     |     |     |      |     |                                                                                     |  |
|                                                                                     |                                                                                     |     |     |      |     |                                                                                     |  |
|                                                                                     | (mm)                                                                                |     |     | (mm) |     |                                                                                     |  |
|                                                                                     | H3                                                                                  | W1  | D1  | H2   | W2  | (mm)                                                                                |  |
| HF681N01M-22                                                                        | 400                                                                                 | 355 | 100 | 340  | 384 | 50                                                                                  |  |
| HF681N01M-24                                                                        | 400                                                                                 | 385 | 100 | 340  | 384 | 50                                                                                  |  |

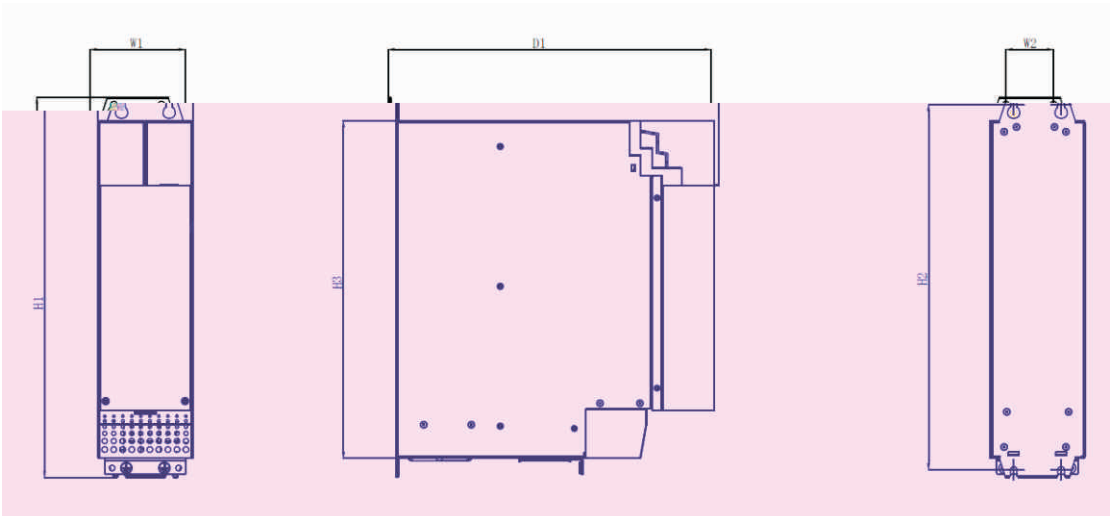




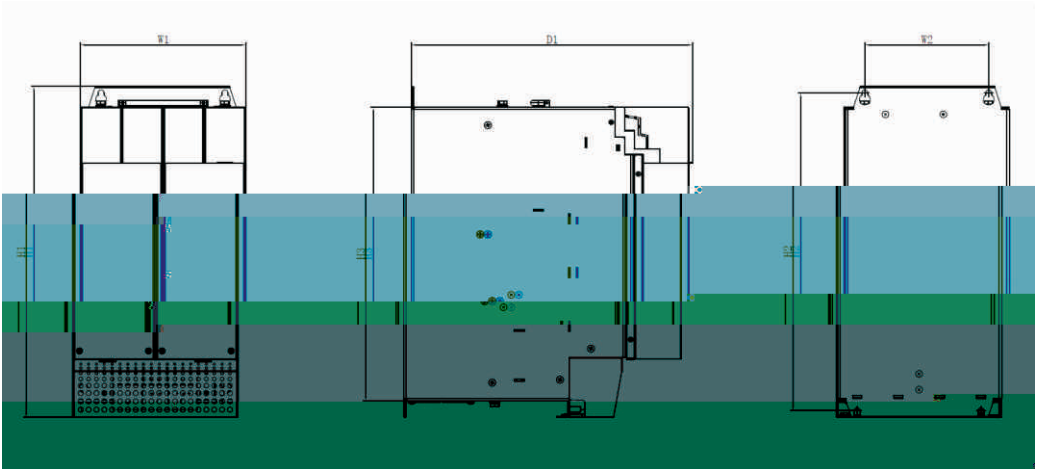
|                 | (mm) |     |     |     | (mm) |     |     | (mm) |
|-----------------|------|-----|-----|-----|------|-----|-----|------|
|                 | H 1  | H 3 | W 1 | D 1 | H 2  | W 2 | W 3 |      |
| HF681N01M-160-4 | 400  | 355 | 300 | 340 | 384  | 250 | 150 | 7    |



|                  | (mm) |     |     |     | (mm) |   |   | (mm) |
|------------------|------|-----|-----|-----|------|---|---|------|
|                  | H 1  | H 3 | W 1 | D 1 | H 2  | / | / |      |
| HF681N03M-1R5- 4 | 400  | 355 | 50  | 340 | 384  | / | / | 7    |
| HF681N03M-2R2- 4 | 400  | 355 | 50  | 340 | 384  | / | / | 7    |
| HF681N03M-3R7- 4 | 400  | 355 | 50  | 340 | 384  | / | / | 7    |
| HF681N03M-5R5- 4 | 400  | 355 | 50  | 340 | 384  | / | / | 7    |
| HF681N03M-7R5- 4 | 400  | 355 | 50  | 340 | 384  | / | / | 7    |



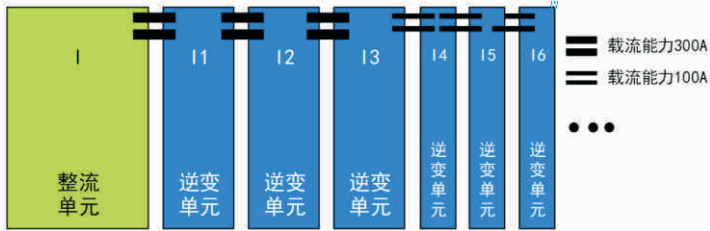
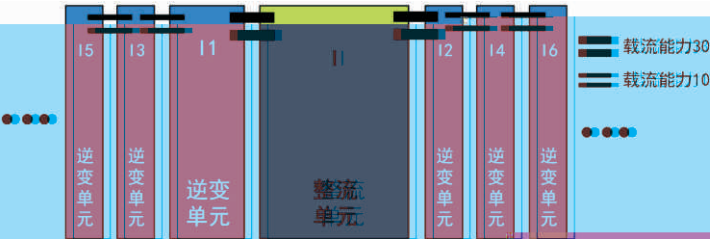
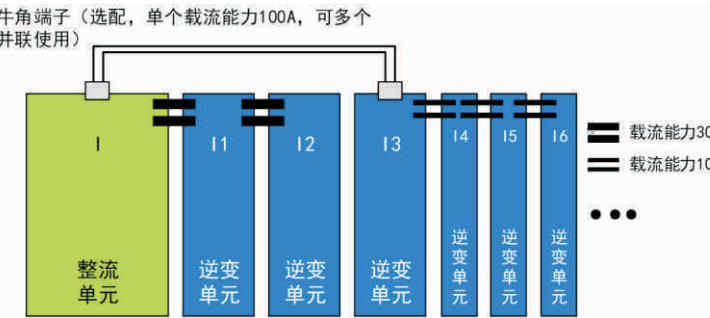
|                  | (mm) |     |     |     | (mm) |     |   | (mm) |
|------------------|------|-----|-----|-----|------|-----|---|------|
|                  | H 1  | H 3 | W 1 | D 1 | H 2  | W 2 | / |      |
| HF681N03M-011- 4 | 400  | 355 | 100 | 340 | 384  | 50  | / | 7    |
| HF681N03M-015- 4 | 400  | 355 | 100 | 340 | 384  | 50  | / | 7    |
| HF681N03M-018- 4 | 400  | 355 | 100 | 340 | 384  | 50  | / | 7    |
| HF681N03M-022- 4 | 400  | 355 | 100 | 340 | 384  | 50  | / | 7    |
| HF681N03M-030- 4 | 400  | 355 | 100 | 340 | 384  | 50  | / | 7    |
| HF681N03M-037- 4 | 400  | 355 | 100 | 340 | 384  | 50  | / | 7    |



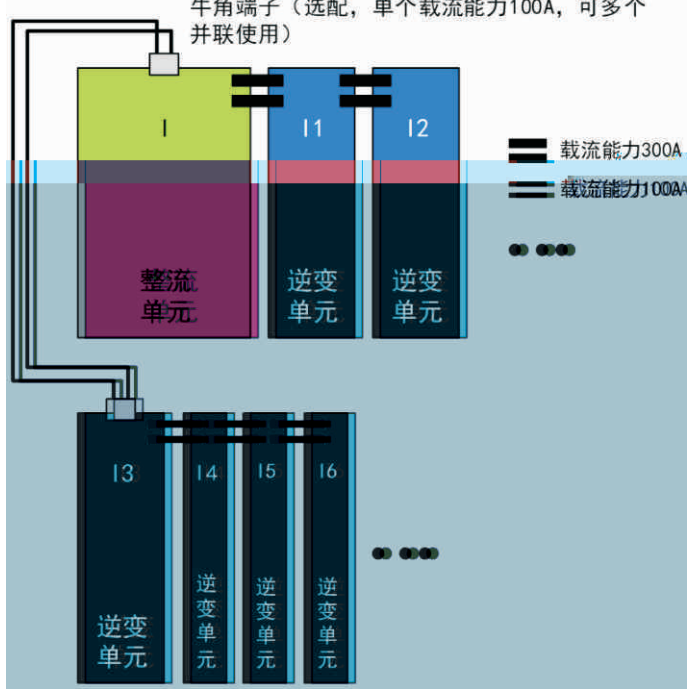
|                  | (mm) |     |     |     | (mm) |     |   | (mm) |
|------------------|------|-----|-----|-----|------|-----|---|------|
|                  | H 1  | H 3 | W 1 | D 1 | H 2  | W 2 | / |      |
| HF681N03M-045- 4 | 400  | 355 | 200 | 340 | 384  | 150 | / | 7    |
| HF681N03M-055- 4 | 400  | 355 | 200 | 340 | 384  | 150 | / | 7    |
| HF681N03M-075- 4 | 400  | 355 | 200 | 340 | 384  | 150 | / | 7    |



HF681N系列产品安装方式

|    |                                                                                                                                                                                                                                                                                                                |  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    |  <p><math>I \geq 0.8 * (I1+I2+I3+I4+I5+I6+...)</math><br/><math>I1+I2+I3+I4+I5+I6+... \leq 300A</math><br/><math>I4+I5+I6+... \leq 100A</math></p>                                                                            |  |
| 居中 |  <p><math>I \geq 0.8 * (I1+I2+I3+I4+I5+I6+...)</math><br/><math>I2+I4+I6+... \leq 300A</math><br/><math>I1+I3+I5+... \leq 300A</math><br/><math>I4+I6+... \leq 100A</math><br/><math>I3+I5+... \leq 100A</math></p>          |  |
|    | <p>牛角端子（选配，单个载流能力100A，可多个并联使用）</p>  <p><math>I \geq 0.8 * (I1+I2+I3+I4+I5+I6+...)</math><br/><math>I3+I4+I5+I6+... \leq 100*n) A</math><br/>(n<br/><math>I1+I2 \leq 300A</math><br/><math>I4+I5+I6+... \leq 100A</math></p> |  |

HF681N系列产品安装方式

|  |                                                                                                                                                                                                                                                                                                                 |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  <p>牛角端子（选配，单个载流能力100A，可多个并联使用）</p> <p><math>I \geq 0.8 * (I1+I2+I3+I4+I5+I6+...)</math><br/><math>I3+I4+I5+I6+... \leq 100*n) A</math><br/>(n<br/><math>I1+I2 \leq 300A</math><br/><math>I4+I5+I6+... \leq 100A</math></p> |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|