

# -HAPF高压链式有 源滤波装置产品手册

ZG-HAPF High Voltage Chain Active Filter Device

Integrated Energy Technology & Service Provider





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## 一、公司简介

-  成立于2002年
-  总部位于广州
-  2007



2002

2

:002169

PCS

(SVG)

/

UPS

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( )

## 二、ZG-HAPF 高压链式有源滤波装置介绍

ZG-HAPF

IGBT

2-25

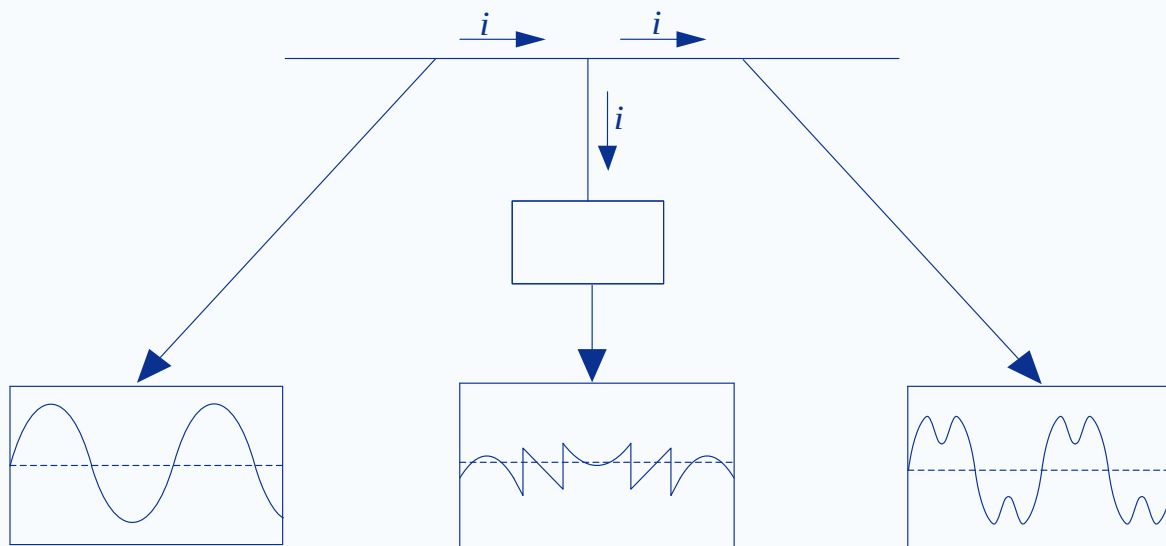
### 2.1 工作原理

$i_L$

$i_L$

$i_{Lh}$

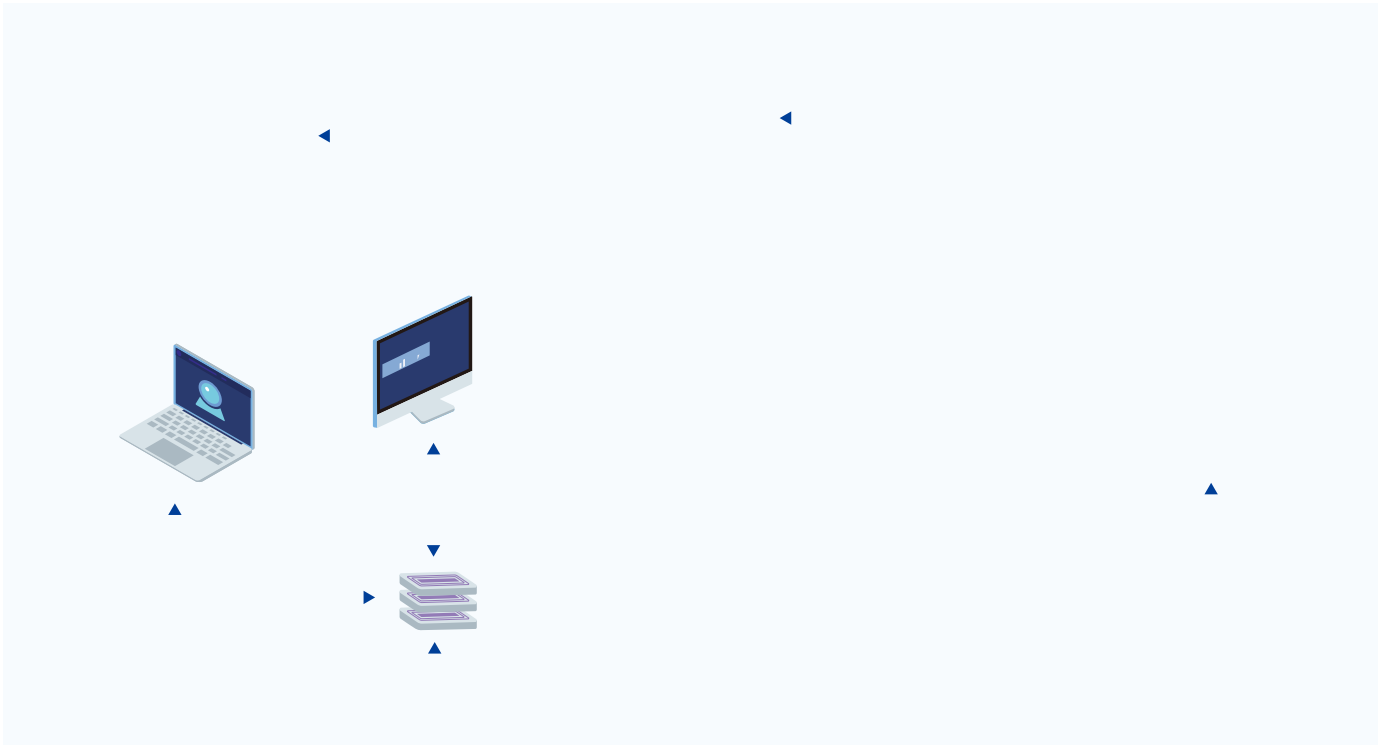
$i_F$



### 2.2 基本组成

HAPF

H



H

SVPWM

HAPF

IGBT

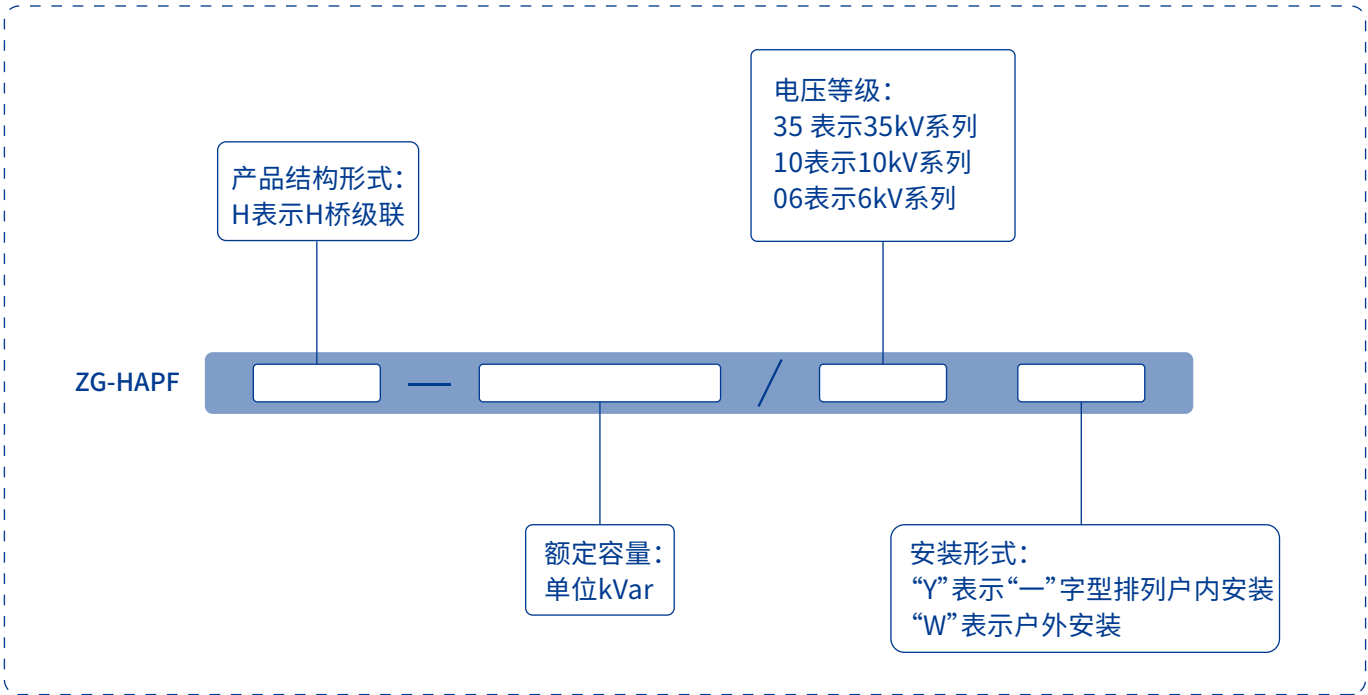
IGBT

# 三、规格和技术参数

## 3.1 型号说明

ZG-HAPF

· “Y” “ ” “W”  
· 35 35kV 10 10kV 06 6kV  
· A  
·  
·  
· H H



高压链式有源滤波装置命名说明

10kV                      200A                      H                      “ ”  
ZG-HAPF-H200/10Y  
10kV                      200A                      2000kVar                      H                      “ ”  
ZG-HAPF-H200-2000/10Y

3.1 技术参数

|       |                                  |          |
|-------|----------------------------------|----------|
|       |                                  |          |
|       | 6kV/10kV/35kV                    | 1140V    |
|       | +15%/-20%                        |          |
| (Hz)  | 50/60 ° 5%                       |          |
| A     | 50A\75A\100A\200A\300A\400A\500A |          |
|       |                                  |          |
|       |                                  |          |
|       | 2~25                             |          |
|       | ≤ 10ms                           |          |
|       | ≤ 100us                          |          |
|       | 1.2                              | 1min     |
|       |                                  |          |
|       | 100%                             |          |
|       |                                  |          |
|       | / +                              |          |
|       |                                  |          |
|       | 10                               |          |
|       |                                  |          |
|       |                                  |          |
| RS485 | Modbus-RTU                       |          |
|       |                                  |          |
|       | IP00                             |          |
|       | -10 ~45                          |          |
| /     | -40 ~60                          |          |
| /     | 20~95%                           | / 10~95% |
|       | 1000m                            |          |

## 四、应用场景

ZG-HAPF

H

石油化工



新能源行业



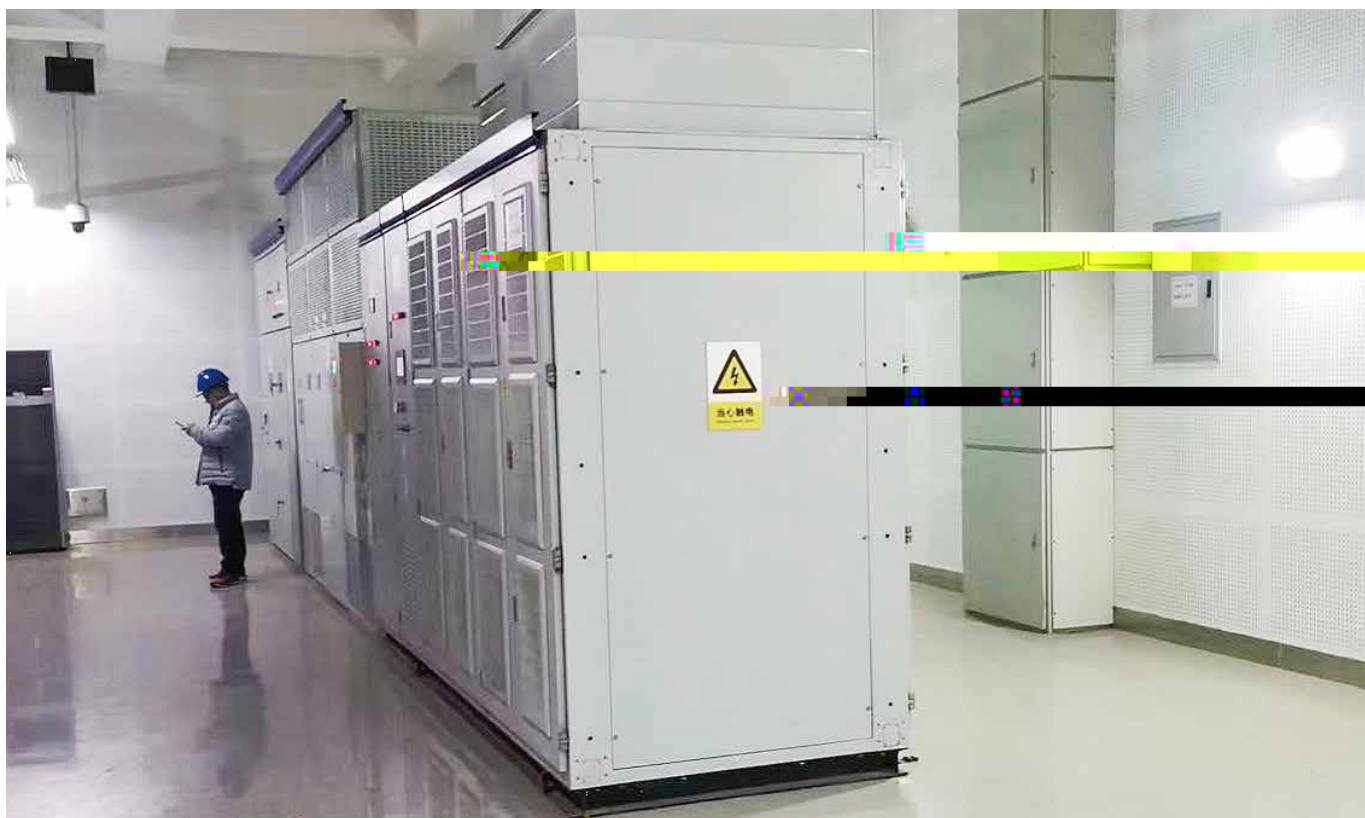
煤炭行业





## 五、应用案例

### 案例1: ZG-HAPF在整流电源上的滤波应用



用户简介:

项目简介:

12k ± 1

10kV

|            |                           |
|------------|---------------------------|
|            |                           |
| kV         | AC10 ° 5%                 |
| Hz         | 50 ° 5%                   |
|            |                           |
| kW         | 2530                      |
| DC V       | 550                       |
| DC A       | 4600                      |
| ms         | 5                         |
|            | 95%                       |
|            | 95%                       |
| 300V*4600A | 92%                       |
| 300V*4600A | 93%                       |
| THD        | THD14.1% 23A 550V*4600A   |
| 1          | THD14.1% 14A 1:300V*4600A |
| 2          | THD14.1% 11A 2:240V*4600A |
| 3          | THD14.1% 11A 3:300V*3670A |

|            | 5     | 7     | 11     | 13     | 17    | 19    | 23    |
|------------|-------|-------|--------|--------|-------|-------|-------|
| 550V*4600A | 3.24A | 2.31A | 14.71A | 12.45A | 0.95A | 0.85A | 7.04A |
| 300V*4600A | 1.86A | 1.33A | 8.47A  | 7.16A  | 0.55A | 0.49A | 4.05A |
| 240V*4600A | 1.51A | 1.08A | 6.85A  | 5.79A  | 0.44A | 0.4A  | 3.27A |
| 300V*3670A | 1.49A | 1.06A | 6.75A  | 5.72A  | 0.44A | 0.39A | 3.23A |

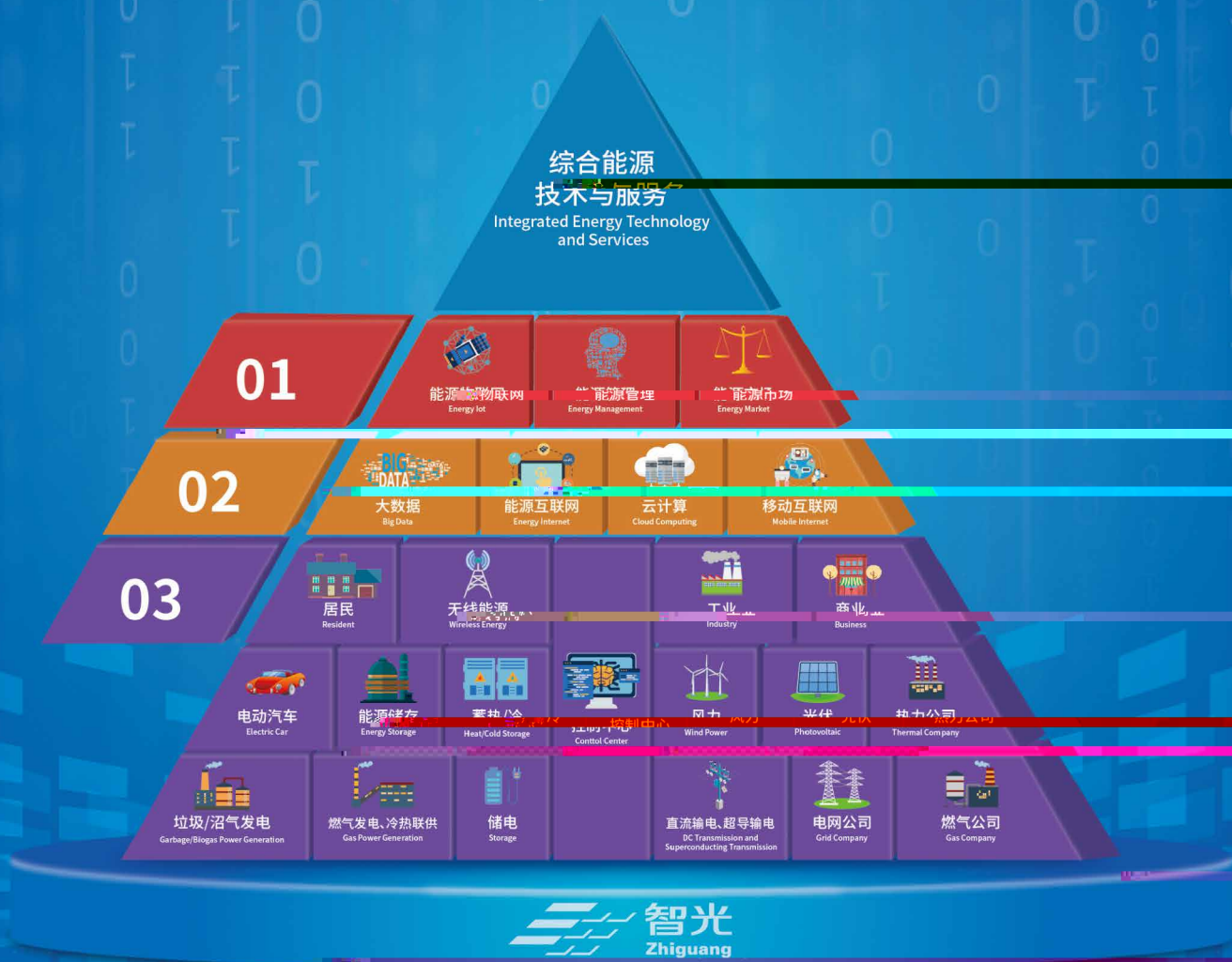
## 解决方案：

ZG-HAPF 50A
 0.95
23A



# 智光·综合能源技术与服务提供商

Zhiguang · Integrated Energy Technology & Service Provider





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