



**Solid Static Marine Shore Power Supply**

**BPS-F Series  
300~1200kVA**

**Professional Power Solution Provider**

**BPS-F -****3**Input Phase  
3**1**Output Phase  
1**800**Capacity  
800kVA**T**Input Voltage  
220/380V

BPS-F Series Solid Static Marine Shore Power Supply products are specifically designed medium-high solid state frequency converters. The capacity ranging from 300kVA to 1200kVA.

BPS-F Series products adopt the digital control technology, are suitable to be used in adverse circumstances of high humidity, high temperature, high corrosion in ships, shore terminals etc. With high reliability and stability, BPS-F Series products can provide 60Hz high-quality power supply.

According to the use of the environment of the customer, BPS-F Series products can be alternatively installed in outdoor or indoor distribution room, protection levels reaching IP54 and IP20.

### BPS-F Series Specifications

| Model         |                                | BPS-F-33300                                                                                                                                                                                  | BPS-F-33400 | BPS-F-33500 | BPS-F-33600 | BPS-F-33800 | BPS-F-331000 | BPS-F-331200 |
|---------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Capacity(kVA) |                                | 300                                                                                                                                                                                          | 400         | 500         | 600         | 800         | 1000         | 1200         |
| Circuit Type  |                                | IGBT/PWM Type                                                                                                                                                                                |             |             |             |             |              |              |
| Input         | Phase                          | Three Phase                                                                                                                                                                                  |             |             |             |             |              |              |
|               | Wave                           | SINE WAVE                                                                                                                                                                                    |             |             |             |             |              |              |
|               | Voltage                        | 220V/380V ①                                                                                                                                                                                  |             |             |             |             |              |              |
|               | Voltage range                  | 220V/380V±15%                                                                                                                                                                                |             |             |             |             |              |              |
|               | Frequency range                | 50Hz±3Hz or 60Hz±3Hz                                                                                                                                                                         |             |             |             |             |              |              |
|               | Max. current (Full load)       | 505                                                                                                                                                                                          | 673         | 842         | 1010        | 1347        | 1684         | 2020         |
| Output        | Phase                          | Three Phase                                                                                                                                                                                  |             |             |             |             |              |              |
|               | Wave                           | SINE WAVE                                                                                                                                                                                    |             |             |             |             |              |              |
|               | Voltage                        | 440V±5% (Line voltage)                                                                                                                                                                       |             |             |             |             |              |              |
|               | Frequency                      | 50Hz or 60Hz                                                                                                                                                                                 |             |             |             |             |              |              |
|               | Frequency regulation           | ≤0.01%                                                                                                                                                                                       |             |             |             |             |              |              |
|               | Max. current                   | 394                                                                                                                                                                                          | 525         | 656         | 787         | 1050        | 1312         | 1575         |
| System        | Power regulation               | <1%                                                                                                                                                                                          |             |             |             |             |              |              |
|               | Load regulation                | ±1% (Linear load)                                                                                                                                                                            |             |             |             |             |              |              |
|               | Total harmonic distortion(THD) | 3% (Linear load)                                                                                                                                                                             |             |             |             |             |              |              |
|               | Efficiency                     | ≥92% (Full load)                                                                                                                                                                             |             |             |             |             |              |              |
|               | Response time                  | ≤2ms                                                                                                                                                                                         |             |             |             |             |              |              |
|               | Crest Factor                   | 3 : 1                                                                                                                                                                                        |             |             |             |             |              |              |
| Indicator     | Protection device              | Input no-fuse breaker, output no-fuse breaker, electronic circuit instant trip for over/low voltage, over current, over load, over temperature and short circuit protection and alarm system |             |             |             |             |              |              |
|               | Voltage                        | Analytic degree: 0.1V, accurate degree: 0.2%FS+1COUNT                                                                                                                                        |             |             |             |             |              |              |
|               | Current                        | Analytic degree: 0.1A, accurate degree: 0.2%FS+1COUNT                                                                                                                                        |             |             |             |             |              |              |
|               | Frequency                      | Analytic degree: 0.01Hz, accurate degree: 0.02Hz                                                                                                                                             |             |             |             |             |              |              |
|               | Power                          | Analytic degree: 0.1kW, accurate degree: 0.2%FS+1COUNT                                                                                                                                       |             |             |             |             |              |              |
|               | Power factor                   | Analytic degree: 0.001, accurate degree: 0.2%FS+1COUNT                                                                                                                                       |             |             |             |             |              |              |
| Environmental | Insulation resistance          | DC500V 10M                                                                                                                                                                                   |             |             |             |             |              |              |
|               | Withstand voltage insulation   | AC 1800V 10mA/1 Min.                                                                                                                                                                         |             |             |             |             |              |              |
|               | Cooling system                 | Fan cooling                                                                                                                                                                                  |             |             |             |             |              |              |
|               | Temperature                    | 10 45                                                                                                                                                                                        |             |             |             |             |              |              |
|               | Humidity                       | 0 90% Non-condensing                                                                                                                                                                         |             |             |             |             |              |              |
|               | Altitude                       | 1500m                                                                                                                                                                                        |             |             |             |             |              |              |
| Case No.      |                                | ①                                                                                                                                                                                            | ②           |             |             | ③           |              |              |
| Weight (Kg)   |                                | 2800                                                                                                                                                                                         | 3100        | 4200        | 4500        | 4900        | 5300         | 5700         |

Remarks: ① Standard ;  
 ② Custom-made specifications are discussible;  
 ③ All specifications are subject to change without prior notice.

## BPS-F Series Case No. & Size

[ Unit: inch / mm (Width×Depth×Height) ]



## BPS-F Series General Features

### BPS-F Series (300kVA~1200kVA)

- One key for shutdown when fault.
- Quick response speed: Response time  $\leq 2\text{ms}$ .
- High overload capacity:  
110% rated load - 1 hour; 150% rated load - 1 minute.
- High efficiency:  $\geq 92\%$  (Full load) .
- High accurate measurement for parameter:  
Input: Voltage-0.1V; Current-0.1A; Frequency-0.01Hz;  
Output: Voltage-0.1V; Current-0.1A; Frequency-0.01Hz;  
Power-0.1kW; Power factor-0.001.
- Pure output sine-wave.
- Well protection and fault alarm function:  
Input: under voltage, out of phase;  
output: over voltage, over current, over load, over temperature,  
short circuit protection; alarm system.
- Power module design patent.
- Custom-made specifications are discussible.



## BPS-F Series Outdoor Unit



- Use BPS-F main power, combine with high standard container, specifically suit for shipbuilding industry outdoor use.
- Protection grade: indoor unit  $>IP20$ , and outdoor unit  $>IP54$ .
- End-to-end integration design for power supply and power distribution, free to move, easy to use.
- Humanized design, outdoor unit interior is equipped with air conditioning, emergency lighting, fire fighting equipment.
- Dry contact failure alarm function (option).
- Custom-made specifications are discussible.

## APPLICATION & SERVICE

AC Power Corp. offers products widely applied in multi-professional fields and provides the best power solutions to customers. Our mission is to satisfy customers' demand by considering the whole conditions including power environment, loading allocation, module solution alternative, thoughtful design, efficient manufacturing, and complete maintenance.

### Application



Shipbuilding industries



Ship repair



Port / Dock



Ship Systems

#### ■ China Shipbuilding Industry Corporation

Dalian Shipbuilding Industry Co., Ltd.  
Shanhaiguan Shipbuilding Industry Co., Ltd.  
Tianjin Xingang Shipyard

#### ■ China State Shipbuilding Corporation

Shanghai Zhongchuan-Changxing Construction Co., Ltd.  
Jiangnan Shipyard (Group) Co., Ltd.  
Chengxi Shipyard Co., Ltd.  
Guangzhou Huangpu Shipyard Co., Ltd.

#### ■ Jiangsu Newyangzi Shipbuilding Co., Ltd.

#### ■ Jiangsu East Shipbuilding Co., Ltd.

#### ■ COSCO Shipyard Group Co., Ltd.

COSCO (Nantong) Shipyard Co., Ltd.  
COSCO (Zhoushan) Shipyard Co., Ltd.

#### ■ Yiulian Dock Yards (Shekou) Limited

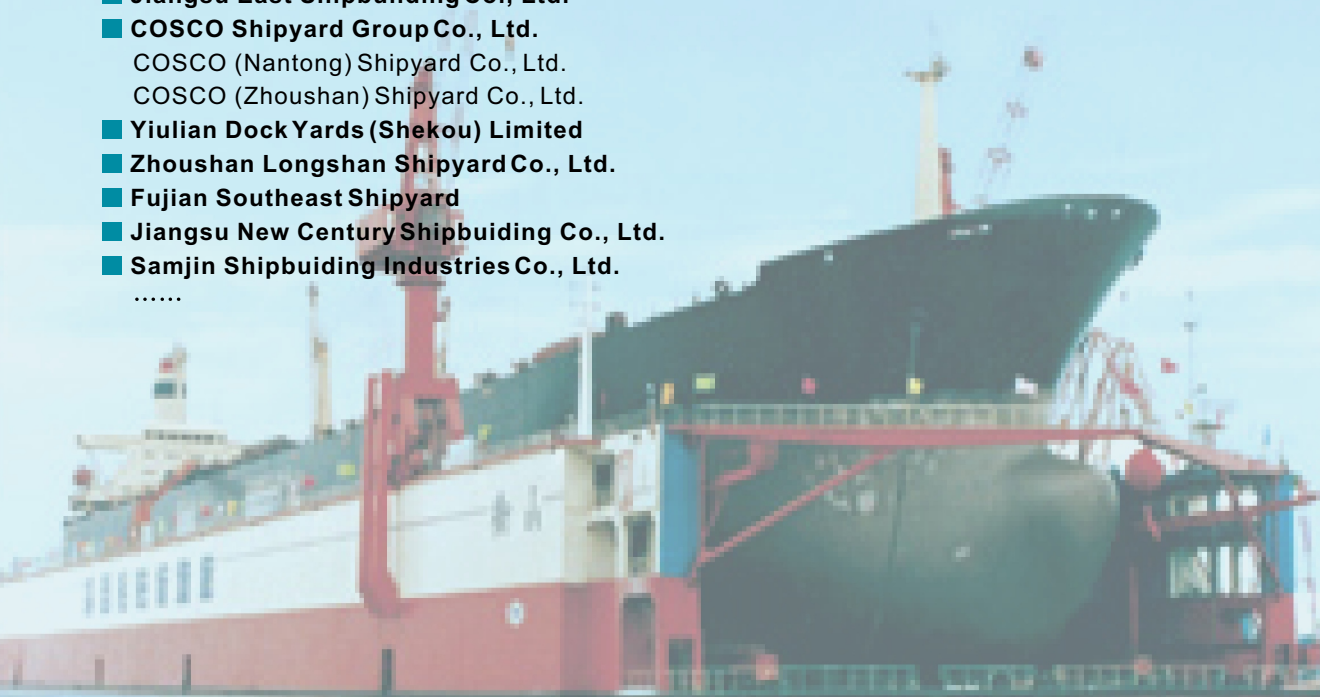
#### ■ Zhoushan Longshan Shipyard Co., Ltd.

#### ■ Fujian Southeast Shipyard

#### ■ Jiangsu New Century Shipbuilding Co., Ltd.

#### ■ Samjin Shipbuilding Industries Co., Ltd.

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