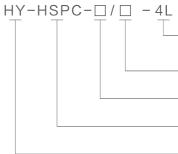
**Contract of the set o** Series (HY-HSPC)

comprehensive manual of power quality products hybrid three-phase unbalanced automatic regulating device series (HY-HSPC)

# Hybrid Three-phase **Unbalanced Automatic Regulating Device Series**

HY - HSPC hybrid three-phase unbalanced automatic regulating device is made of electricity electrical three-phase unbalanced automatic adjustment module and intelligent passive three-phase unbalanced automatic adjustment module. The device can satisfy the user to the dual requirement of reactive power compensation and three-phase unbalanced, has the characteristics of excellent balance adjustment effect, low power consumption, high cost performance, etc.

#### MODEL 🔊



## PRODUCT FEATURE 🔊

#### Powerful functions

- Three-phase unbalanced con
- Capacitive and inductive real compensation
- Filter low-order harmonics

#### Response quickly

■ The total response time ≤ 10n

## Man-machine coordina

- Real-time display waveform data of power quality
- Waveform and data comparis before and after adjustment

## Better reliability

- The core components are imp
- Self-detection, fault diagnosi self - recovery function
- Overvoltage, under voltage, temperature, overload and ot protections

## Intelligent monitoring

- Multiple communication interf /WIFI/ bluetooth), standard communication protocol
- PC, mobile phone can monitor equipment status

 Method of connecting wire:3L Three-phase three-wire system/4L Three-phase four-wire system Passive capacity (Unit : kVar)
 Active capacity (Unit : kVar)
 Three-phase unbalanced automatic regulating device
 Huayi LV electric brand name

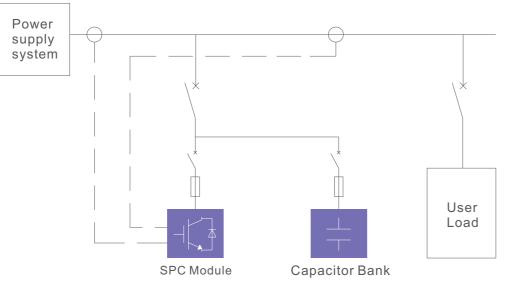
	Excellent performance				
mpensation ctive	<ul> <li>Unbalanced compensation &lt; 3%</li> <li>Power factor: 0.99</li> <li>Current distortion rate &lt; 5%</li> </ul>				
	Flexible installation				
ns	<ul> <li>Support pole-mounted and horizonta mounting</li> </ul>				
ation	High performance				
and	<ul> <li>Active eliminates the phase step of passive output, improve passive output characteristics</li> </ul>				
	Easy to install, debug and maintain				
ported is, over ther	<ul> <li>Reasonable structure design, easy to operation and maintenance</li> <li>Phase sequence automatic identification, no need to distinguish positive sequence</li> <li>The current transformer direction can be automatically identified</li> </ul>				
face(RS485/F	85232				

http://www.hydiya.com 18



#### WORKING PRINCIPLE **S**

HY-HSPC Hybrid three-phase unbalanced automatic regulating device series is made up of SPC modules and capacitor group, input capacitance between phase to phase or phase to ground, forms asymmetric compensation admittance network, adjusts the unbalanced active current of the basic quantity, and conducts reactive compensation and harmonic filtering at the same time. Then the SPC module dynamically adjusts the remaining variation to achieve rapid and stable of three-phase current load imbalance.





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TECHNICAL PARAMETERS 📎						
Item	Parameters					
Rated Voltage	AC400V ± 20%					
Rated frequency	50Hz					
Method of connecting wire	three-phase three-wire/three-phase four-wire					
Apparatus capacity	30/70kVar、30/120kVar、50/100kVar、50/120kVar					
Unbalanced compensation	n Imbalances <3%					
Objective power factor	-1~1 (can be set)					
The filter scope	supports harmonic current compensation for low times (3, 5, 7, 9, 11, 13).					
Fast response time	<50us					
Total reponse time	<10ms					
Active power loss	<3%					
Noise	≤65dB					
In parallel operation mode	up to 10 sets in parallel operation					
IP Grade	IP54					
Cooling mode	intelligent air cooling					
Protection function	overvoltage, undervoltage, over temperature, overload, phase loss , short circuit, lightning protection, anti-jamming and other hardware and software protection					
Installing form	derrick installation, H rod installation, F rod installation					
Communication function	RS485/232, Ethernet, WIFI/ bluetooth, GPRS (optional); use M odbus protocol (optional for other protocols)					
Display function	touch liquid crystal display					
Ambient temperature	−10°C~+40°C					
Storage Temperature	−20°C~+70°C					
Altitude	${\leq}2000\text{m},\text{Other}$ elevations are used according to the national standard					

#### COMMON SELECTION CONTROL TABLE

The total capacity /kVar	Specifications and models	Active capacity /kVar	Passive capacity /kVar		Total reactive power compensation /kVar
80	HY-HSPC-30/50	30	50	45~67	80
100	HY-HSPC-30/70	30	70	45~76	100
	HY-HSPC-50/50	50	50	75~97	100
150	HY-HSPC-30/120	30	120	45~97	150
	HY-HSPC-50/100	50	100	75~119	150
175	HY-HSPC-50/125	50	125	75~130	175

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