



HEFEI SHUYI DIGITAL POWER CO., LTD.



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Innovation and Precision



# Power Distribution Unit

Terminal power distribution expert

# Company Profile

Shu Yi focuses on the R&D, production, and application of data center integrated solutions. As technical consulting, product supply, system integrator, and service provider, it is committed to serving customers in the fields of communication equipment rooms, data centers, smart construction, and energy management.

Our solutions include data center temperature, humidity, and energy-saving solutions, small and medium-sized computer room temperature control solutions, micro-module data center solutions, micro-module cabinet solutions, container, and modular data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.

Has rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment, and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.

We are committed to "paying attention to customer needs and realizing customer value" and establishing a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value for money products and services to make customers more competitive", and continue to explore and innovate.



## ShuYi Intelligent Power Distribution Products Advantages



### Security

Excellent overload protection capability.



### Green

The efficiency management can be carried out by energy consumption detection to promote energy-saving and emission reduction.



### Intelligence

Through the intelligent protection of electrical safety IT equipment, it can be remotely managed with socket level, phase level and PDU level current metering function and the threshold / alarm function.

## Intelligent Power Distribution Products Positive Significance



Server Cabinet

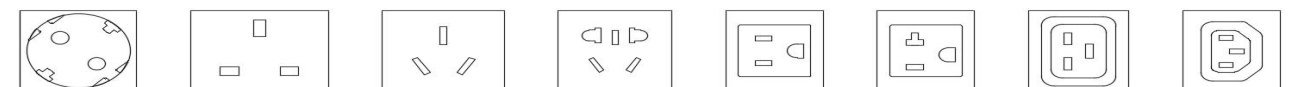
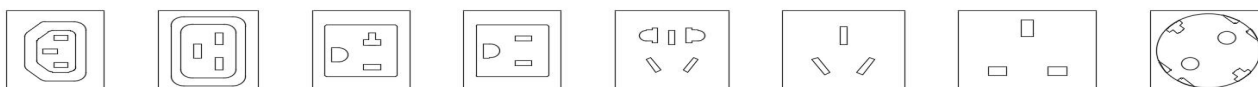


PN series PDU



Data Cabinet

Intelligent PDU can achieve real-time monitoring of the data center, inside the cabinet and all kinds of terminal equipment of current and voltage feedback, to help operation and maintenance personnel adjust the working state of all kinds of equipment, to provide first-hand information for personnel to understand the demand for data center energy status and meet the requirements of energy saving, safety and it reduce the cost of operation and maintenance.





## Intelligent Power Distribution Products Application Fields



Communication industry



IDC engine room



Security system



Electric power system



Track traffic

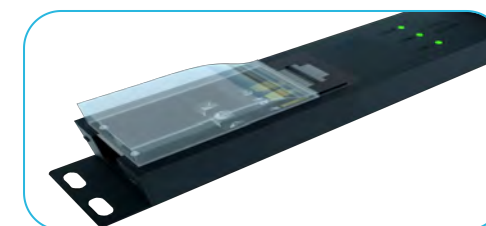
Shu Yi intelligent power distribution products are widely applied in the communication industry, security systems, electrical systems and financial systems, etc. They support security protection for the critical electronic equipment in computer room, information center, security monitor and control, and automated industrial production line. They are also widely applied in the industry of office cabling, intelligent buildings etc.

## PDU Application Scenarios

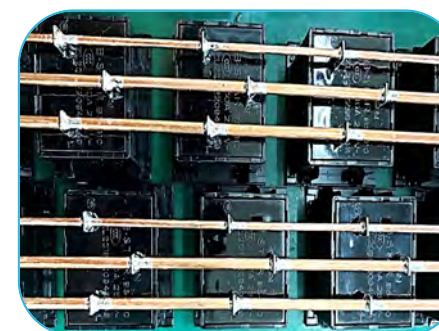


## Basic PDU

- 2.00mm thick profile, the product structure is stable, which can avoid the risk of structure collapse or socket falling.
- Integration of automatic welding of high-purity red copper bar, Ensure through flow of product redundancy, Control temperature rise  $<3^{\circ}\text{C}$ , Raise the PUE of the computer room.
- Open type junction box improve efficiency and reliability, Make operation and maintenance convenient.
- Connecting the bridge plate silver-plated red copper process, support 80A MAX through flow.
- 2500V high voltage indicator light, 100% products are tested for safety before leaving the factory.
- Lighted socket module



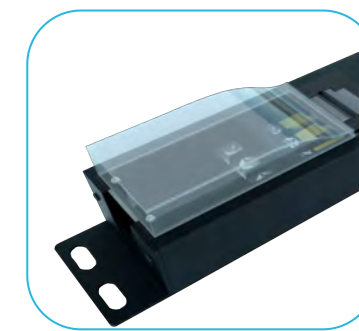
## Technological structure



Integrated red copper bar



Secondary protection grounding



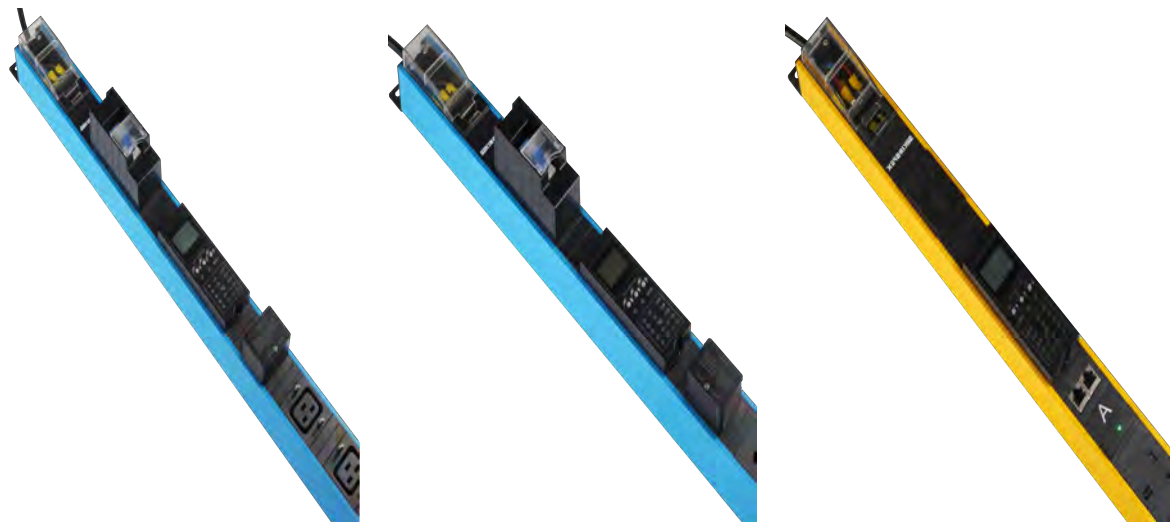
Open type junction box





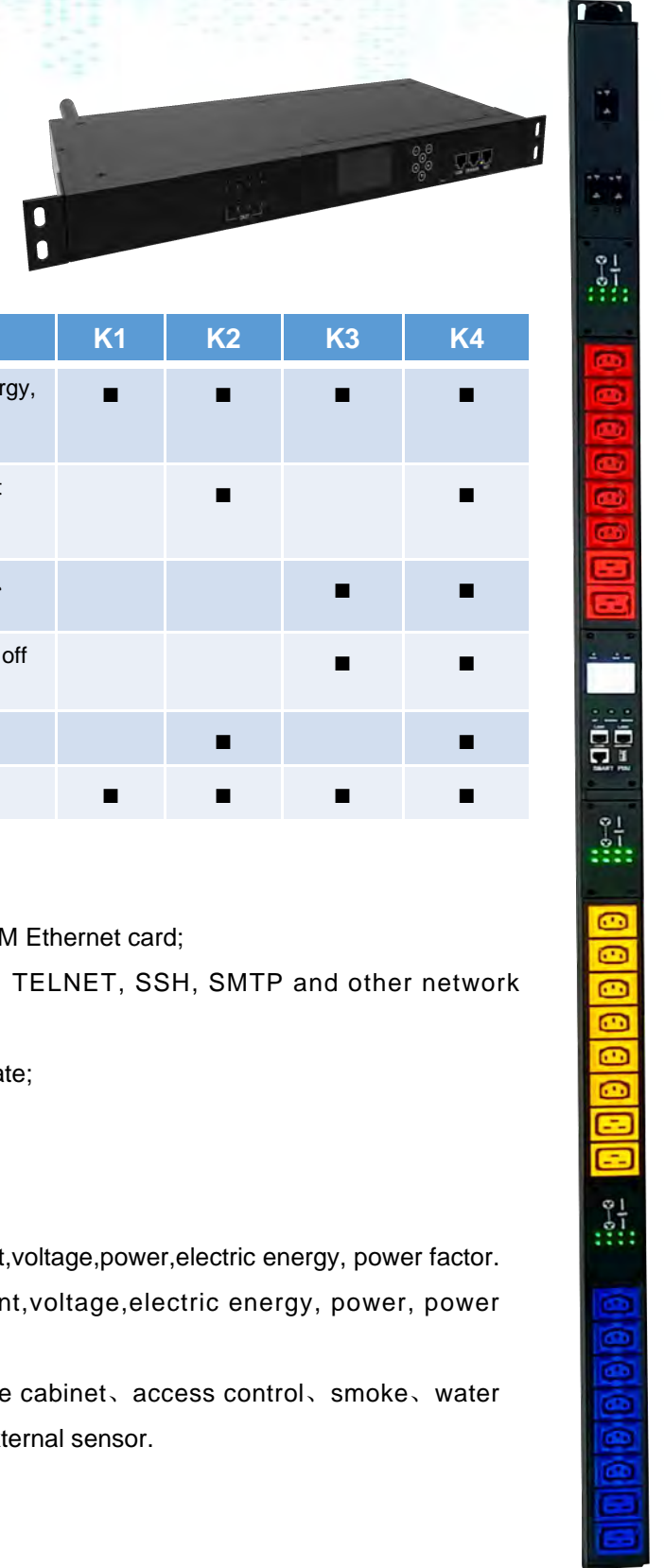
## Functional PDU

- Functional PDU series, suitable for power, communication, control and other cabinet equipment. Widely used in large/medium/small data center, office , dispatch center, control center and other scenarios.
- The product is designed according to IEC standards and supports horizontal/vertical installation of standard cabinets. Support variety of optional function modules (Transparent open type junction box, Temperature inspection module, Air/Hydraulic Switch Assembly, Meter Module, Socket Execution Module, Lightning protection module, Fuse, etc.
- Hot swap current voltage electric energy meter, The meter header can be combined with various modules, LCD display.
- Support single-phase AC, three-phase AC, -48V DC, 240V high voltage DC, 336V high voltage DC and other formats access; Support 8 sensors to access including temperature and humidity, door contact, water immersion, smoke, infrared, and wind speed.



## Smart K series PDU

- K1:Total monitoring
- K2:Total monitoring+Unit monitoring
- K3:Total monitoring+Unit control
- K4:Total monitoring+Unit control+Unit monitoring



Mainly function	K1	K2	K3	K4
Remote total monitoring (current, voltage, electrical energy, power, power factor) , User defined total input voltage threshold.	■	■	■	■
Remote total monitoring, Monitor the each unit of output current, voltage, energy, power, power factor.		■		■
Remote total monitoring, Remote control output unit on、off and restart.			■	■
User-defined setting output unit sequence power on and off delay.			■	■
User-defined each output unit of current threshold		■		■
Access to various sensors	■	■	■	■

## Remote access

- Remote access via TCP/UDP and built-in 10, 100M Ethernet card;
- Support TCP/UDP, NTP, DHCP, HTTP, SSL, TELNET, SSH, SMTP and other network protocols;
- Support ModbusRTU, support loading CA certificate;
- Support SNMP V1, V2 ,V3.

## Monitoring

- Remote monitoring PDU total(loop/packet) current,voltage,power,electric energy, power factor.
- Remote monitoring of each output unit current,voltage,electric energy, power, power factor(K2/K4)
- Monitor the temperature and humidity inside the cabinet、access control、smoke、water leakage、and infrared environment through an external sensor.
- Support alarm,log counting, etc.



Control and configuration

- Remote control of each output unit, output unit state maintained(K3/K4);
- User-defined the sequential power-on and power-off delay. the output unit is powered on and off periodically((K3/K4))
- User-defined the total current and voltage threshold. The current of each output unit can be defined by K2、 K4.
- One host can be cascaded to 32 sub-units.Dual network port cascade network for faster dataTransmission.

Smart KN series PDU Technical Parameters

Smart KN series PDU		Parameters
Input	Input Type	AC single phase, AC three phase,-48VDC,240VDC,336VDC
	Input Mode	Transparent open type junction box,power cord, cable, industrial connector, socket etc.
	Input Voltage Range	100-277VAC/312VAC-418VAC/100VDC-240VDC/-43VDC- -56VDC
	AC Input Frequency	50/60Hz
	Total Load Current	MAX 63A
Output	Storage Temperature	-40℃~+70℃
	Relative Humidity	5~95% (No condensation)
	Atmospheric Pressure	70 kPa~106 kPa
	Working Altitude	No more than 4000M
Environme ntal	Working Temperature	-10℃~+75℃
	Storage Temperature	-40℃~+80℃
	Relative Humidity	5~95% (No condensation)
	Working Altitude	No more than 3000m
	IP Rating	IP20
Protection	Input Protection Module	Circuit breaker, lightning protection, leakage protector, temperature insepction module (optional)
	Output Protection Module	Circuit breaker, fuse box, fuse(optional)

Smart F series PDU

- F1:Total monitoring
- F2:Total monitoring+Unit monitoring
- F3:Total monitoring+Unit control
- F4:Total monitoring+Unit control+Unit monitoring



Mainly function	F1	F2	F3	F4
Total monitoring (current, voltage, electrical energy, power, power factor) , User defined total input voltage threshold.	■	■	■	■
Total monitoring, Monitor the each unit of output current, voltage, energy, power, power factor.		■		■
Total monitoring, Remote control output unit on、 off and restart.			■	■
User-defined setting output unit sequence power on and off delay.			■	■
User-defined each output unit of current threshold		■		■
Access to various sensors	■	■	■	■

Access

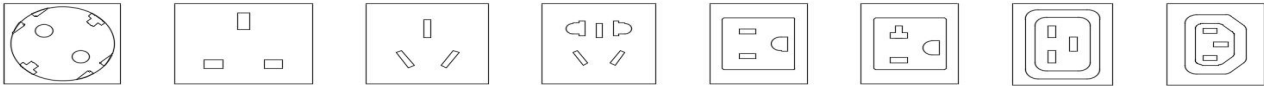
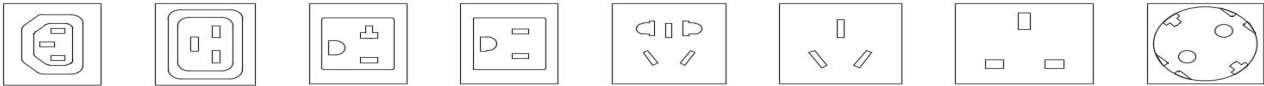
- Support ModbusRTU;

Monitoring

- Monitoring PDU total(loop/packet) current,voltage,power,electric energy, power factor.
- Monitoring of each output unit current,voltage,electric energy, power, power factor(F2/F4)
- Monitor the temperature and humidity inside the cabinet、 access control、 smoke、 water leakage、 and infrared environment through an external sensor.

Control and Configuration

- Remote control of each output unit, output unit state maintained(F3/F4);
- User-defined the sequential power-on and power-off delay. the output unit is powered on and off periodically((F4))
- User-defined the total current and voltage threshold. The current of each output unit can be defined by F2、 F4.



Smart F series PDU Technical Parameters

Smart F series PDU		Parameters
Input	Input Type	AC single phase, AC three phase,-48VDC,240VDC,336VDC
	Input Mode	Transparent open type junction box,power cord, cable, industrial connector, socket etc.
	Input Voltage Range	100-277VAC/312VAC-418VAC/100VDC-240VDC/-43VDC- -56VDC
	AC Input Frequency	50/60Hz
	Total Load Current	MAX63A
Output	Storage Temperature	-40℃~+70℃
	Relative Humidity	5~95% (No condensation)
	Atmospheric Pressure	70 kPa~106 kPa
	Working Altitude	No more than4000m
	Working Temperature	-10℃~+75℃
Environmental	Storage Temperature	-40℃~+80℃
	Relative Humidity	5~95% (No condensation)
	Working Altitude	No more than3000m
	IP Rating	IP20
	Input Protection Module	Circuit breaker, lightning protection, leakage protector, temperature insepction module (optional)
Protection	Output Protection Module	Circuit breaker, fuse box, fuse(optional)

Functional PDU monitoring module

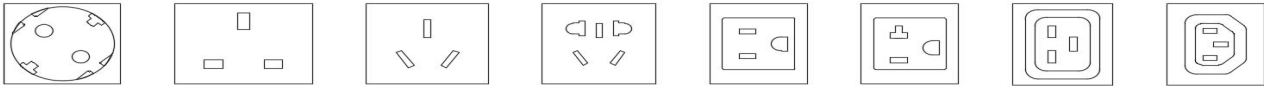
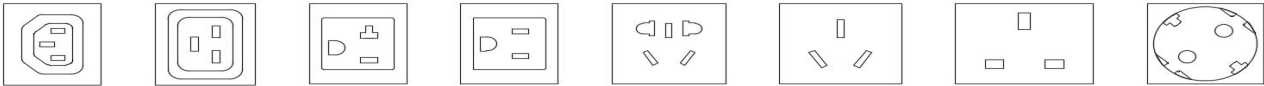
Basic inspection module

- The monitoring module can be plugged online
- Standard temperature and humidity sensor interface
- LCD Display
- Switch between Chinese and English language
- The screen can be display and rotated 180°
- Total monitoring (current, voltage, electrical energy, power, power factor)



Functional inspection module

- Module can be plugged online
- Standard temperature and humidity sensor interface
- LCD Display
- 485 Communication interface
- Monitor each unit of output electricity consumption and control
- Switch between Chinese and English language
- The screen can be display and rotated 180°
- (current, voltage, electrical energy, power, power factor)

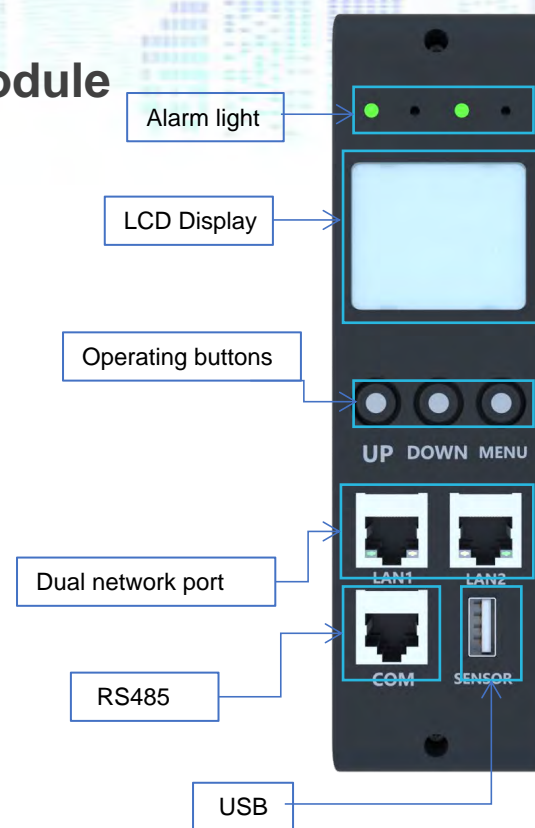




## Intelligent PDU monitoring module

### Intelligent remote monitoring module:

- The monitoring module can be plugged and upgraded online
- Eight types of sensors can be connected to the USB sensor interface
- LCD Display, Dual network port cascade network for faster data transmission.
- Support TCP/UDP (Including SNMP V3, NTP, DHCP, HTTP, SSL, TELNET, SSH, SMTP etc) support loading CA certificate
- Monitor each unit of output electricity consumption and control
- Switch between Chinese and English language
- The screen can be display and rotated 180°



### Execution module:

- Modular design, standardization, high integration, support hot swap
- Vulnerable parts are integrated in the execution module, Can be replaced on site in less than one minute, available upgraded online without power failure, The socket does not lose electric power
- Support mixed use of sockets, the quantity can be customized
- Miniaturized single module supports access to 8 sockets, one single meter supports access to a maximum of 6 execution modules, achieve independent monitoring and control by 48 sockets



## General module

- Ultra High Voltage Indicator light:



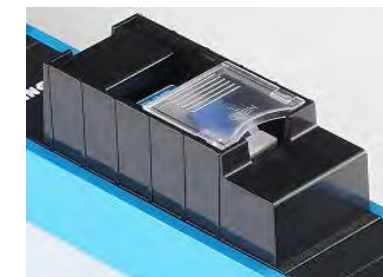
- Overload protection:



- Built-in lightning protection:



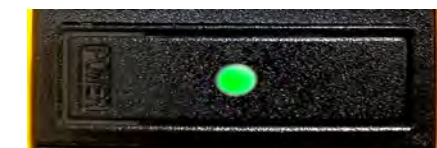
- General circuit breaker module:



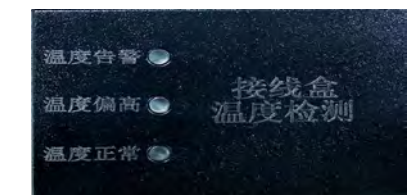
- Replaceable insurance + replaceable indicator light:



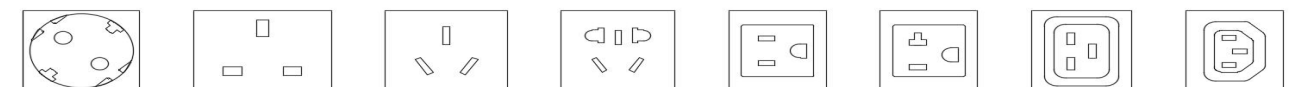
- Pluggable indicator light:



- Temperature rise inspection module:



- Pluggable lightning protection:



Output Modules



China



For product Series	
Code	CHN(10)
type	GB1002
Paramter	10A 250VAC



For product Series	
Code	CHN(16)
type	GB1002
Paramter	10A 250VAC



For product Series	
Code	CHN(10)
type	GB2099-2
Paramter	10A 250VAC



For product Series	
Code	CHN(16)
type	GB2099-5
Paramter	10A 250VAC



For product Series	
Code	CHN(10) with lamp
type	GB2099-2
Paramter	10A 250VAC



For product Series	
Code	CHN(16) with lamp
type	GB2099-5
Paramter	10A 250VAC



For product Series	
Code	CHN(10)
type	GB2099-5
Paramter	10A 250VAC



For product Series	
Code	CHN(10)
type	GB2099-3
Paramter	10A 250VAC



IEC



For product Series	
Code	T-C13(10)
type	IEC320 C13
Paramter	10A 250VAC



For product Series	
Code	T-C19(16)
type	IEC320 C19
Paramter	16A 250VAC



For product Series	
Code	T-C13(10) with lamp
type	IEC320 C13
Paramter	10A 250VAC



For product Series	
Code	T-C13(10) with lamp
type	IEC320 C13
Paramter	10A 250VAC

Output Modules



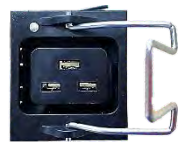
IEC



For product Series	
Code	T-C2(10)
type	IEC320 C13
Paramter	10A 250VAC



For product Series	
Code	T-C19(16) with lamp
type	IEC320 C19
Paramter	16A 250VAC



For product Series	
Code	T-C19(16) with lamp
type	IEC320 C19
Paramter	16A 250VAC



USA



For product Series	
Code	USA(20)
type	NEMA5-20R
Paramter	20A 125VAC



For product Series	
Code	USA(15)
type	NEMA5-15R
Paramter	15A 125VAC



Germany



For product Series	
Code	GER(16)
type	DIN49440
Paramter	16A 250VAC



UK



For product Series	
Code	GBR(13)
type	BS1363 (90°)
Paramter	13A 250VAC

