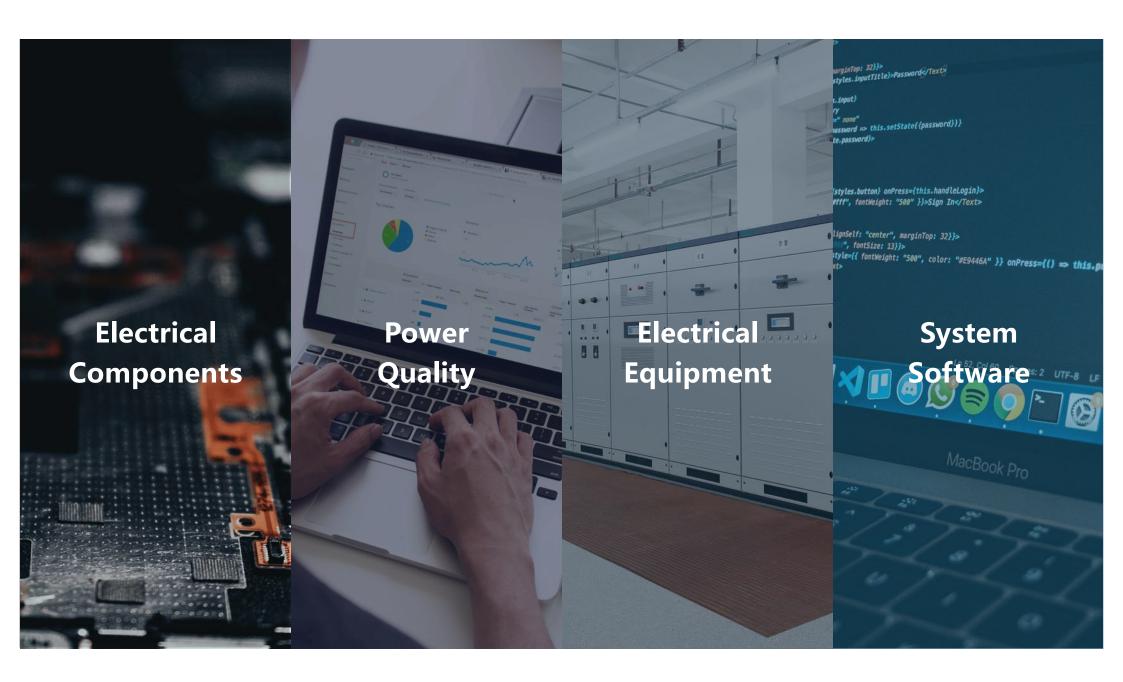
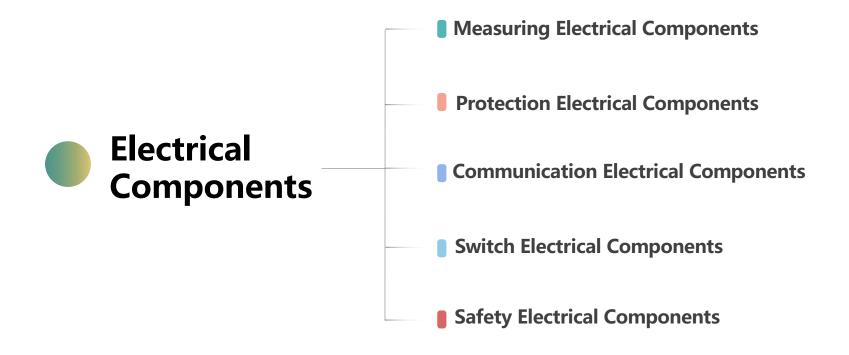


## Elecnova

ELECTRIC APPLICATION SOLUTION EXPERT











Dimension: 91x91mm

Sfere720 Series

- Energy Accuracy 0.2S
- IP65 (Front)
- All-parameter measurement
- Bi-directional energy metering
- 4-quadrant reactive metering
- 4 Tariffs
- Hamonics V/A THD
- Harmonics up to 63rd
- Voltage fluctuation/flicker/sudden rise/drop
- Fault record Memory 8MB
- 1 Interface RS485(standard)/2DO/2DI
- Support 15 optional modules







Sfere720 Series

- FM1(2 AC digital inputs)
- FM2(4 dry digital inputs)
- FM3(2 relay outputs)
- FM4(2 analog inputs)
- FM5(2 temperature inputs)
- FM6(2 analog outputs)
- FM7(Modbus-TCP)
- FM8(Profibus-DP V0)
- FM9(WIFI)
- FM10(GPRS)

- FM11(RS485,Modbus-RTU)
- FM12(M-Bus)
- FM13(BACnet/MSTP)
- FM14(BACnet/IP)
- FM15(RS232,Modbus-RTU)
- FM16(Lora)
- FM17(DNP3.0)





Dimension: 91x91mm

- Energy Accuracy 0.5S
- IP64 (Front)
- All-parameter measurement
- Bi-directional energy metering
- 2 Tariffs
- Hamonics V/A THD
- Hamonics up to 31st
- 1 Interface RS485/4DI/3DO/1AO

PD194Z Series





- Working Tempetature : -25℃~+70℃
- Especially suitable for low-voltage feeder cabinet

PD194Z Series





Dimension: 91x91mm

PD194Z Series

- Energy Accuracy 0.2S
- IP64 (Front)
- All-parameter measurement
- Bi-directional energy metering
- 2 Tariffs
- Hamonics V/A THD
- Harmonics up to 51st
- Voltage sudden rise/drop
- 1 Interface RS485(standard)
- 6DI/3DO/2AO







LNF series

- LED display
- Real-time measurement I/U/P/Q/S/F/PF
- Bi-directional energy metering
- 4-quadrant reactive metering
- THD, Harmonics up to 15th
- 1 Energy pulse output
- 1 Interface RS485
- Support optional digital input
- Support optional relay output
- Support optional analog output





200 200 200 3769 58.00

Dimension: 91x91mm

Dimension:

67x67mm

- LCD Display
- IP54 (Front)
- Uitra-thin design
- Real-time measurement I/U/P/Q/S/F/PF
- Bi-directional energy metering
- 4-quadrant reactive metering
- THD, Harmonics up to 15th
- Optocoupler isolation
- 1 Interface RS485

**LNF** Series

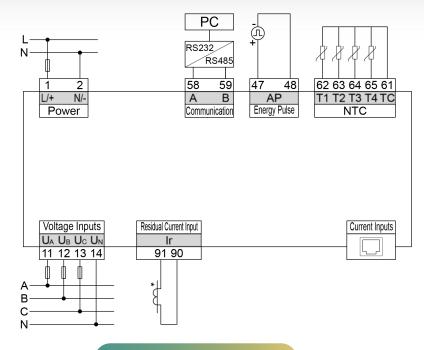


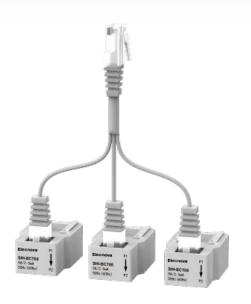


- LED Display DIN-rail mounted
- Real-time measurement I/U/P/Q/S/F/PF
- Bi-directional energy metering
- 4-quadrant reactive metering
- THD, Hamonics up to 15th
- 1 Interface RS485
- Extensive communication mudule( LoRa /4G/NB )

PD194Z-E20







PD194Z-E20B





PD194Z-E14

- 3-phase monitoring up to 4 circuit
- Direct connection via external CT (solid/split)
- Real-time measurement I/U/P/Q/S/F/PF
- Bi-directional energy metering
- 4-quadrant reactive metering
- THD , Harmonics up to 31st
- 1 Interface RS485



Especially suitable for

Transfomation project



## Solid CT

Model	SHI-BCT05	SHI-BCT100	SHI-BCT200	SHI-BCT400	SHI-BCT600
Rated Current	5A	100A	200A	400A	600A
Maximum Current	10A	120A	240A	480A	720A
Accuracy	0.1%	0.1%	0.1%	0,1%	0.1%
Isolation Voltage	4kVAC	4kVAC	4kVAC	4kVAC	4kVAG
Operating Temperature	-40 C − 20 C	-40 C − 70 C	-40 C −70 C	-40 C − 70 C	-40 C ~70 ℃
Storage Temperature	-40 C - 70 C	-40 C - 70 C	40 C ~ 70 C	-40 C − 70 C	-40 C ~70 C
Diameter(mm)	8	18	24	29	29
Dimension(mm)	28×18×44	36×20×59	60×20×80	75×22.5×95	75×22.5×95



## Split CT

Model	SHI-SCT05	SHI-SCT100	SHI-SCT200	SHI-SCT400	SHI-BCT600
Rated Current	SA	100A	200A	400A	600A
Maximum Current	64	120A	240A	480A	720A
Accuracy	1%	0.5K	0.5%	0.5%	0.5%
Isolation Voltage	4kVAC	4kVAC	4KVAC	4kVAC	4kVAC
Operating Temperature	-40 C = 70 C	40 € =70 €	-40 C −70 C	-40 C =70 C	-40 C −70 K
Storage Temperature	-40 C -70 C	40 € -70 €	40 C - 70 C	-40 C -70 C	-40 C - 20 C
Diameter(mm)	10	16	24	35	35
Dimension(mm)	29+27+42	30×31×53	44+39×70	57×41×84	57×41×84







SPLIT CORE CT	4	4	-	<b>4</b>	
Model	SHI-SCT05	SHI-SCT100	SHI-SCT200	SHI-SCT400	SHI-SCT600
Diameter(mm)	10	16	24	35	35
Dimension(mm)	29×27×42	30×31×53	44×39×70	57×41×84	57×41×84

Solid CT/Split CT/Flexible CT











Model	SHI-BCT50M	SHI-BCT100M	SHI-BCT200M	SHI-BCT400M
Rated value	50A	100A	200A	400A
Aperture of transformer(mm)	ф18	ф18	ф23,32×12	ф29,42×12
Outline dimension(mm)	36×20×59	36×20×59	60×20×80	75×22.5×95









Model	SHI-BCT600M	SHI-BCT800M	SHI-BCT1000M	SHI-BCT2000M
Rated value	600A	800A	1000A	2000A
Aperture of transformer(mm)	ф29,42×12	ф61,82×22	ф61,82×22	ф61,82×22
Outline dimension(mm)	75×22.5×95	132×37×158	132×37×158	132×37×158

## Matched low-power transformer

- Significant cost advantage
- Safe and reliable, secondary side mV signal output, open circuit allowed
- Breathing light, compact size
- Easy installation and use











SFERE700 Series





Sfere700-D

Display module Communication module Sfere700-C

Measuring module Sfere700-M

Power module Sfere700-P

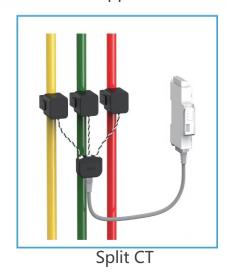
- Up to measuring 32 three-phase circuits or 96 single-phase circuits
- 7/10 inches HMI options
- Centralized display and management of parameters
- Compact design, easy installation
- Primary current supports connection via solid/split/flexible CT

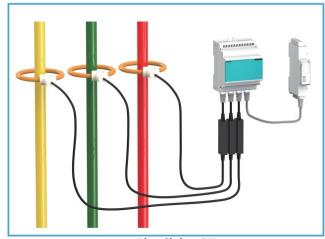
SFERE700 series



Solid/split/flexible current transformer could be applied to the monitoring module to adapt various applications.







Flexible CT

Solid CT/Split CT/Flexible CT





PD195Z-E31 PD195Z-E33

- Monitoring up to 21 DC circuits(via extensive EM2D module)
- Real-time measurement I/U/P
- Bi-directional energy metering
- Support monitoring DC 1000V
- 1 Interface RS485



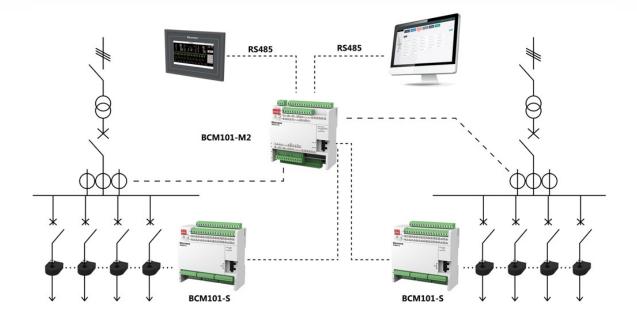


BCM101 **AC Precision Distribution Monitoring Unit** 

- Support monitoring 2 input circuits & 90 output branch circuits
- Real-time measurement
   voltage/zero-to-earth voltage/current/frequency
   energy/demand/ harmonics/temperature
- Bi-directional energy metering
- Tariffs
- Save the energy of 10 years
- SOE event record (1024 pieces)
- Support judging the status of breaker in every branch circuit by monitoring the voltage accordingly
- Support 100A direct connection to current measurement of feeder branch circuit



Double input circuit system diagram







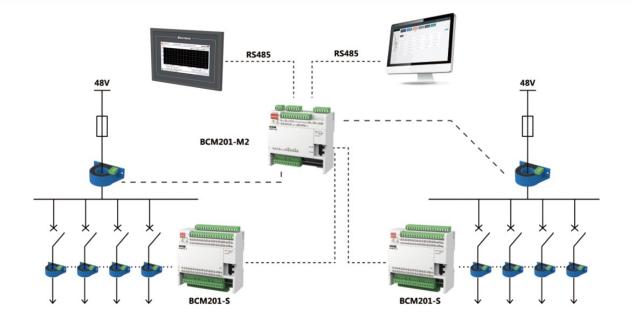
BCM201

DC Precision Distribution Monitoring Unit

- Support monitoring 2 input circuits & 90 output branch circuits
- Real-time measurement
   voltage/zero-to-earth voltage/current/frequency
   energy/demand/ harmonics/temperature
- Bi-directional energy metering
- Tariffs
- Save the energy of 10 years
- SOE event record (1024 pieces)
- Support judging the status of breaker in every branch circuit by monitoring the voltage accordingly
- Current signal input via Hall sensor



Double input circuit system diagram



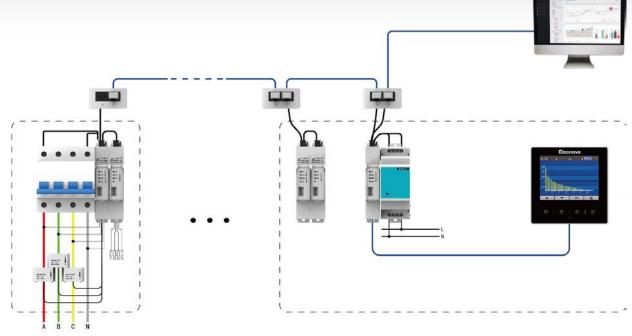




Sfere701-M Sfere701-F

- Real-time measurement U/I/P/Q/S/PF
- Energy audit
- Power quality analysis
- Status monitoring/Overload alam
- Leakage monitoring/Temperature monitoring etc.
- Capability of measuring up to 32 three-phase circuits or 96 single-phase circuits
- Equipped with large multi-color LCD screen and touch mode buttonsconvenient to use
- Convenient to use, compact size, easy installation





Measuring and extensive modules Sfere701-M + Sfere701-F

Communication module and power supply module Sfere701-C + Sfere701-P

Display Unit Sfere701-HMI





DTS1946-4P DTS1946-4M



DTS1946-2P DTS1946-2M

- Monitoring AC single-phase/three-phase circuit
- Real-time measurement I/U/P/PF/THD
- Bi-directional energy metering
- Energy Accuracy 0.5S Class1
- 1 Interface RS485
- 1 Energy pulse output
- Support 63A direct access
- Up in Down out
- MID certification(2M,4M)









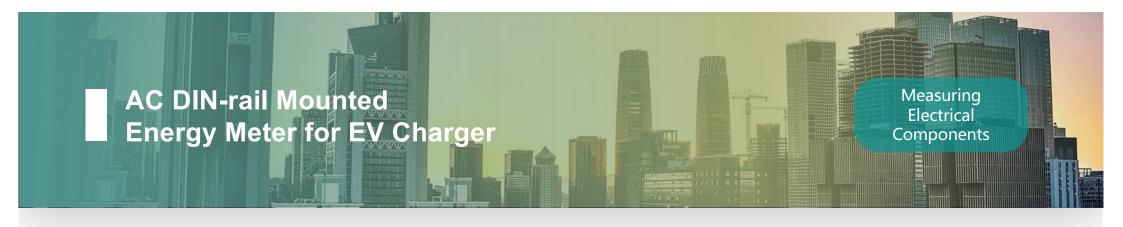


- Monitoring AC three-phase/single-phase circuit
- Real-time measurement I/U/P/PF/THD
- Bi-directional energy metering
- Energy Accuracy 0.5S Class1
- 1 Interface RS485
- 1 Energy pulse output
- Support direct connection up to 100A
- Support connection via CT

DTS1946 DDS1946

DDS1946-1P

DDS1946-1P+







DTSF1946-4M-01

- Monitoring AC three-phase circuit
- Real-time measurement I/U/P/PF/THD
- Demand Min./Max. value
- Energy Accuracy ClassB
- 1 Interface RS485
- 1 Energy pulse output
- Support 63A direct connection
- Down in Up out
- Extreme working temperature -40°C~70°C









DDS1946-1P Single phase DDS1946-2M Single phase

- Monitoring AC single-phase circuit
- Real-time measurement I/U/P/PF/THD
- Demand Min./Max. value
- Energy Accuracy ClassB
- 1 Interface RS485
- 1 Energy pulse output
- Support 63A direct connection
- Up in Down out
- Extreme working temperature  $-25^{\circ}\text{C} \sim 70^{\circ}\text{C}$







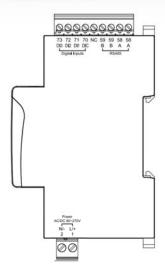
- Support monitoring 1/2 DC circuit
- Real-time measurement I/U/P
- Bi-directional energy metering
- Support monitoring DC 1000V
- 1 Interface RS485
- Extreme working temperature -40°C~70°C

PD195Z-CD31F Single PD195Z-CD32F Dual





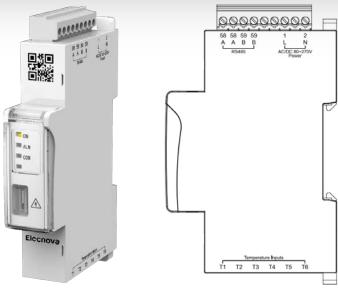
Sfere700-DI3



- Support 3 circuit digital input monitoring
- Dry contact
- RS485 interface, Modbus-RTU protocol
- Optional working power supply
   DC24V or AC/DC80~270V

SFERE700-DI3
Digital input measuring module





SFERE700-T6
Temperature measuring module

- Support 6 circuit temperature monitoring
- NTC10K , measuring range -20~150°C
- RS485 interface, Modbus-RTU protocol





- Optional AC three-phase/single-phase parameters measurement U/I/P/PF/F etc.
- DC voltage/current measurement
- Optional LED/LCD display
- RS485 interface
- Optional digital input/relay output/analog output
- Multi dimensions options

Intelligent power meter





- Optional three-phase/single-phase parameter transmission output U/I/P etc.
- DIN-rail mounted
- RS485 interface , Modbus-RTU protocol

Transducer





- Measure three-phase current, 1 circuit voltage and 1 circuit residual current
- 10 protection functions
- 2 relay output (1 normally on, 1 normally off)
- SOE event record
- Optional analog output/residual current protection function

WDH-31-200





- 12 protection functions
- 5 programmable digital input
- 4 programmable relay output
- LCD display
- Optional anti-interference module





- 12 protection functions
- 5 programmable digital input
- 4 programmable relay output
- LCD display
- Optional anti-interference module





- 16 protection functions
- 12 programmable digital input
- 7 programmable relay output
- LCD display
- Support anti-interference/power-up self-starting functions, etc.





- 21 protection functions
- 12 programmable digital input
- 8 programmable relay output
- Harmonics up to 31st
- LCD display
- Energy audit、THD analysis
- Fault record
- Support anti-interference/power-up self-starting functions
- Optional Ethernet/Profibus-DP communication protocol





- 15 protection functions
- 12 programmable digital input
- 7 programmable relay output
- LCD display

WKH-32-500





- LoRa Wireless communication
- Radio Unvarnished Transmission
- Long-distance
- 470M/868M/912M multi band options
- Downlink RS485

SC2





- IoT
- Wireless network
- Intelligent configuration and debugging
- Device management
- Multi communication protocols including MQTT
- Dual network port exchanging function
- Uplink Ethernet/WIFI/4G/NB-IoT options
- Downlink RS485/LoRa options





S20

- Multi-circuit data acquisition
- Multi-protocol conversion
- Data analysis and calculation
- Automatic logic control
- Docking multiple platforms
- Flexible WEB configuration
- Uplink Ethernet/4G , Downlink RS485
- 128M Flash, 64M SDRAM, extensive 32G TFcard





## - Remote monitoring and data analysis on cloud platform 🖺

- Automatic protection of overvoltage/undervoltage
- Surge, over temperature/short-circuit protection
- Automatic reclosure
- 6000A breaking capacity
- Matched gateway supporting Ethernet/4G/WIFI options

SFB2A





SFW1 series

- Intelligent, high breaking, zero flashover
- With 3 poles or 4 poles, drawer type and fixed type, support inverted installation
- Conform to IEC60947-2, GB/T14048.2 and other standards
- Complete protection features, convenient setting and high precisiong
- Three-position/four-position protection function, monitoring function, fault memory function, can be equipped with communication interface
- Current range 200A-6300A
- Short-circuit breaking capacity 50kA-135kA





SFM3 series

- Modular installation of accessories, free selection
- Patented designs such as quick-rod structure and double-spacing structure, the product performance is better
- Complete product accessories are available for selection, with stronger expansion functions to meet customers' diverse needs
- Rated working voltage up to 690V, Rated insulation voltage up to 1000V, meeting the requirements of various industries
- With overload and short-circuit protection functions
- Small dimension, high breaking capacity, short arc, vibration resistance etc.
- Current range 10A-800A
- Short-circuit breaking capacity up to 100kA





SFG series

- Appliable for circuits with AC 50Hz, rated voltage of 400V and below, and rated current of 16A-1600A
- High dielectric performance, protection capability and reliable operation safety
- Three poles/four poles optional (three poles+neutral pole that can be on/off)







- The switch is driven by motor and solenoid coil to ensure the fast transfer rate
- Intergrated three-position/two-position and split-type two-position options
- Rated current 16A-3200A (GA/GN type)
- Split-type products can be equipped with SF70 series intelligent automatic transfer switch controller

SFP1 series







- Grade-CB automatic transfer switch realizes 2-in and 1-out
- Settable parameters, telecommunication communication as an option
- All-bakelite housing with high safety factor and no outward flashover
- Compact design with high anti-interference performance
- Small volume, with isolation function
- Rated current 6A-630A

SFC3 series







- Rated current 6A-63A
- 6kA high breaking capacity
- 1P-4P optional
- Mainly used for power distribution in lighting/motor protection
- Overload and short-circuit protection
- Leakage protection (L)

SFB1/SFB1L







- Rated current10-100A
- 10kA high breaking capacity
- 1P-4P optional
- Applied to power distribution system/building lighting protection
- Overload and short-circuit protection
- Leakage protection (L)

SFB3/SFB3L

