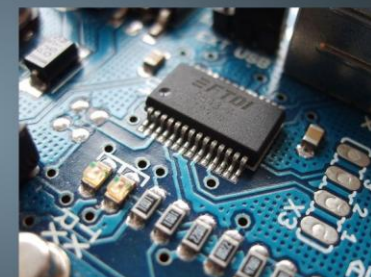
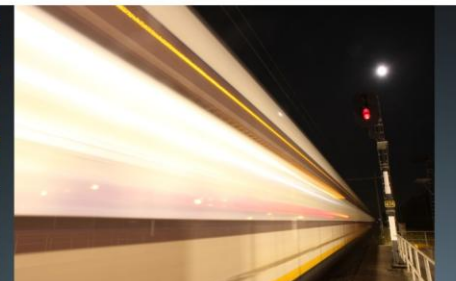


HEAG® 华仪

2013

**ELECTRIC ENERGY METER
CATALOG**

*Act as the legate of fair
measurement*



Zhejiang Huayi Electronic Industry Co.,Ltd

Address: No.138 Ningtang West Road, Yueqing, Zhejiang, P.R.CHINA
TEL: +86-577-6152-2383
FAX: +86-577-6253-9766
Website: www.kema-meter.com



**Zhejiang Huayi Electronic Industry Co.,Ltd
ZHEJIANG · CHINA**

HEAG 华仪

ENTERPRISE BRIEF INTRODUCTION

www.kema-meter.com



- > Huayi Group is the first electric apparatus listed company in Wenzhou, also the first Chinese wind turbine overall-machine export enterprise, Chinese Top-500 Private Enterprise, Chinese Top-500 Machinery Enterprise, Chinese Top-ten Leading Enterprise in Electric Products in high-voltage electric appliance industry.
- > Zhejiang Huayi Electronic Industry Co Ltd., being established in 1997, is one of the core subsidiary companies of Huayi Electric Appliance Group (HEAG) and the earliest enterprises engaged in electric energy meters market. Our company has gained ISO9001 Quality System Certificate, also been granted director unit by Zhejiang Provincial Instrument & Meter Industry Association, director unit by Chinese Instrument & Meter Industry Association.
- > Huayi Electronic's main products include single-phase/three-phase state grid intelligent electric energy meter series, single-phase/three-phase electronic static energy meter series, single-phase/three-phase multi-rate energy meter, single-phase/three-phase prepayment series, single-phase/three-phase PLC electric energy meter, three-phase multi-functional energy meter series, online electricity service and management system, distribution transformer comprehensive management system, intelligent water meter collector, resident centralized meter reading system, etc.
- > Currently, we have 405 staffs, among whom there are 122 research personnels. What's more, we have set up Product Research Institution and timely established long-term cooperating relationships with Japanese Toshiba, Zhejiang University and numerous electric departments. All these aim to constantly enhance company's scientific research level and technical development capability in order to guarantee our industrial advantageous position!

ENTERPRISE QUALIFICATION

KEMA

CERTIFICATE

TYPE TEST OF ENERGY METERS

Manufacturer	Zhejiang Huayi Electronic Industry Co., Ltd.
Customer	Mr. Lars Bævre
Address	No. 120 Wenzhou Road, Wenzhou
City	Zhejiang, China
Product name	Three-phase three-wire intelligent energy meter
Product code	HEAG-3x3x3
Product size	144x144x72mm
Product weight	1.2kg
Product class	Static energy meter
Product type	Three-phase three-wire static energy meter
Product standard	GB/T 17215.312-2008
Product class	0.5S
Product range	100V, 220V, 380V
Product class	0.5S
Product range	100V, 220V, 380V
Product class	0.5S
Product range	100V, 220V, 380V

CE

SGS

DECLARATION

ISO 9001

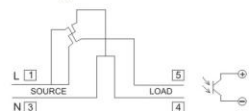
////// **DDS3 Single Phase Static Watt-hour Meter**

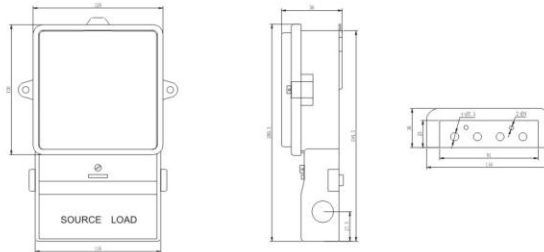


DDS3-DJ

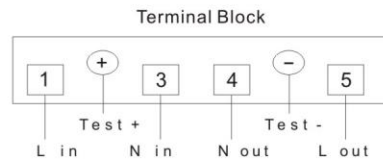


DDS3-DYRH

Rated voltage (V)	220V/230V/240V
Working Voltage Range	70%~115%Un
Rated current (A)	1.5 (18) A, 5 (30) A, 5 (60) A, 10 (60) A, 15 (100) A
Rated frequency	50/60Hz
Accuracy Class	Class1, Class2
Working Temperature	-45°C~70°C
Level of Protection	IP51/IP54
Display Mode	LCD/Counter
Pulse Constant	400/800/1600/3200/6400/12800imp or as required
Standard	IEC62056-11 IEC6205-23
Communication Port	RS485 or IR
Main functions	1 Bidirectional active energy measurement 2. reverse energy accumulated to positive energy 3. Anti-tampering feature.
Optional Function	1. With infrared communication function
Wiring diagram	Connection diagram: 



Terminal block wiring diagram:



////// **ANSI Socket Single Phase Energy Meter**



HY01-2S



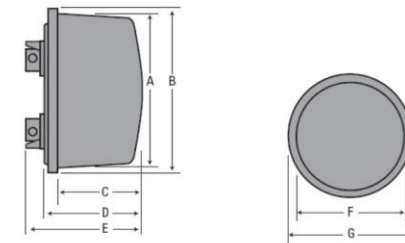
HY01-1S

Socket Type	Form 1S and Form 2S
Accuracy Class	Class 1 or Class 2.0
Voltage	1S:AC120V 2S:AC240V
Current	10(60)A 15(100)A 30(200)A
Frequency	50/60Hz
Starting Current	0.4%Ib
Power consumption	≤5VA
Working Temperature	-30~60°C
Standard	ANSI C12.10 and ANSI C12.20

Main feature:

1. Single Tariff Energy and Multi Tariff(Optional)
2. Bidirectional Active Energy Measurement
3. Two way metering, total active power consumption measurement
4. Optional anti-tamper function
5. LCD Display or counter
6. High Accuracy
7. A high light LED indicator is mounted on the cover of the meter, pulsing a rate proportional in accordance with operating meter.

Dimensions:



A	B	C	D	E	F	G
6.29"	6.95"	3.93"	4.93"	5.93"	6.29"	6.95"
16cm	17.7cm	10cm	12.54cm	15.08cm	16cm	17.7cm

DDSY39 Single Phase Prepayment Energy Meter (STS)



DDSY39

Accuracy Class	Class 1 or Class 2.0
Voltage	AC240V/ AC220V
Current	5(60)A
Frequency	50 /60Hz
Starting Current	0.4%Ib
Power consumption	≅ 5VA
Working Temperture	-30~60℃
Standard	IEC62055

Main feature:

1. Bidirectional active energy measurement, reverse energy accumulated to positive energy.
2. Measuring the total accumulative and indicate remaining energy.
3. Programmable remaining credit warning(multi-level) and automatically switch off when the credit was used up.
4. Credit transmit through 20 digits STS token
5. Open upper cover and terminal cover detection whether the meter is power on or off. Switch off when the remaining credit is below the set value.
6. Credit overflow limit: If the credit amount transferred plus remaining credit more than credit stock limit, then the credit amount transferred will be refused, but the credit amount transfer token is still valid.
7. Alarm: When remaining credit crosses the minimum credit (5.00kWh, 2.0kWh, 0.5kWh), the warning LED blink, LCD also indicates the warning symbol to remind user to purchase credit. Buzzer buzzes offers customizing.
8. It is convenient charge the meter through SMS, internet and so on.
9. High reliability and high accuracy
10. Various event log function

DDS3(AJ) AY DDSF



DDS3-AJ



DDSF-AY

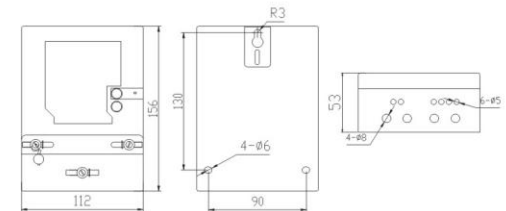
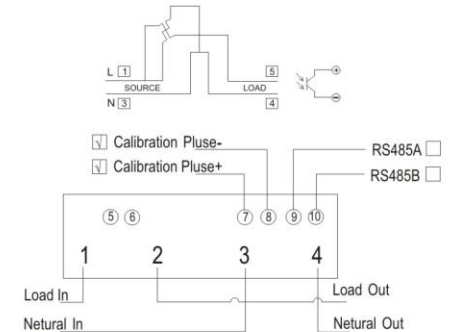


DDS3-AJ

Rated voltage (V)	220V/230V/240V
Working Voltage Range	70%~115%Un
Rated current (A)	2.5(10)A,5(20)A,10(40)A,15(60)A,20(80)A
Rated frequency	50/60Hz
Accuracy Class	Class1,Class2
Working Temperature	-45℃~70℃
Level of Protection	IP51/IP54
Display Mode	LCD/Counter
Pluse Constant	400/800/1600/3200/6400/12800imp or as required
Standard	IEC62056-11 IEC6205-23
Communication Port	RS485 or IR
Main functions	1 Bidirectional active energy measurement 2. reverse energy accumulated to positive energy 3. Anti-tampering feature.
Optional Function	1. Output interface RS485 2. With infrared communication function

Wiring diagram

Connection diagram:



DTS3(AJ)(AYRH)DTSF3 DTSD3/DSSD2



DTS3(AJ)



DSSD2(AYRH)

Rated voltage (V)	3*100V,3*110V,3*380V,3*220/380V,3*230/400V
Working Voltage Range	70%~115%Un
Rated current (A)	3*1.5(6)A,3*10(40)A,3*15(60)A,3*20(80)A,3*30(100)A or as required
Rated frequency	50/60Hz
Accuracy Class	Class1
Working Temperature	-45℃~70℃
Level of Protection	IP51
Display Mode	LCD/Counter
Pluse Constant	800/1600/3200/imp or as required
Standard	IEC62056-11 IEC6205-23
Communication Port	
Main functions	1.Bidirectional active energy measurement 2.Pulse output with optical-coupling isolated 3.reverse energy accumulated to positive energy 4.Anti-tampering feature.
Optional Function	1.Output interface RS485 2.With infrared communication port 3.Multi-rate function,4 tariff, 8 periods 4.Multi-function: I、U、KW、KVAR、KWH、KVARH、HZ、COS、FOUR Quadrant
Wiring diagram	<p>Connection diagram:</p> <p>Power line connection diagram of three-phase four-wire</p>

DTS3(AJ)(AYRH)DTSF3 DTSD3/DSSD2

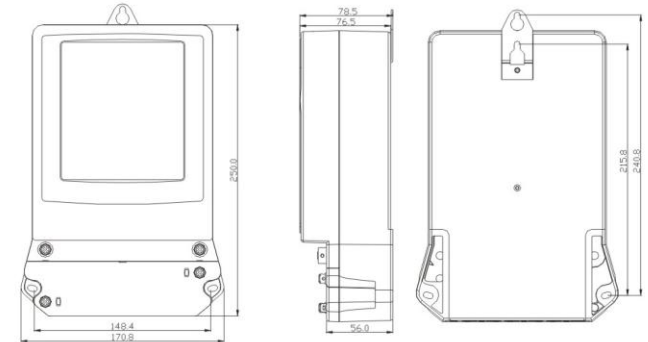


DTSF3



DTS3(AYRH)

wiring diagram



Type	Name	Display	Function
DTS3-AJ	3-Ph Static Energy Meter	Counter	Active Energy(RS485)
DTS3-AY	3-Ph Static Energy Meter	LCD	Active Energy(RS485)
DTSF3/DSSF3-AY	3-Ph Multi-Rate Energy Meter	LCD	Active Energy/(4 Tariff 8Periods/RS485)
DTSD3/DSSD2-AYRH DTSD3/DSSD2-VIII	3-Ph Multi-Function Energy Meter	LCD	I/U/F/PF/kW/kVar/kWh/kVarh (4 Tariff 8Periods/RS485)

Panel Digital Meter



PA3901



Z Series PD390Z

Specification		Parameter	
Input measurement	Network		
	1 Phase, 3 Phase 3 Line, 3 Phase 4 Line		
	Voltage	Rated Voltage	AC100V-00V, DC100V-400V/DC75mV
		Overload	Permanent: 1.2 times temporary:2 times/10s
		Power Consumption	<1VA (each phase)
		Accuracy	RMS measurement, CLASS 0.5
	Current	Rated Current	AC1A, AC5A, AC10A, AC500mA, DC5A/DC20mA
		Over load	Permanent: 1.2 times temporary: 2 times/10s
		Power Consumption	<0.4VA (each phase)
	Accuracy	RMS measurement: CLASS 0.5	
Frequency	40-60Hz, accuracy 0.1Hz		
Display	LED display Or LCD Screen		
Power	Operation range	AC, DC 80-270V	
	Power consumption	≤5VA	
Environment	Working environment	-10-55°C	
	Store environment	-20-75°C	
Optional Programmable Output	Communication Interface	RS-485, MODBUS-RTU protocol	
	Switch value input	Four loops input, dry node mode	
	Switch value output	Four loops output, relay mode	
	Analog value output	Two loops output, 4-20mA/0-20mA	

Function Series	I/U/F /PF	Kw /kVar /kVA	kWh /kVarh	UI Harmonic	RS485	Multi-rate	Analog Output	Switch Input and Output	Relay Alarm
A Series	✓	✓	✓	✓	✓	✓	✓	✓	✓
H Series	✓	✓	✓	✓	✓	/	/	/	/
Z Series	✓	✓	✓	/	✓	/	✓	✓	✓
E Series	✓	✓	✓	/	✓	/	/	/	/
K Series	✓	✓	✓	/	✓	/	✓	/	✓
X Series	✓	✓	✓	/	/	/	/	/	/

Panel Digital Meter

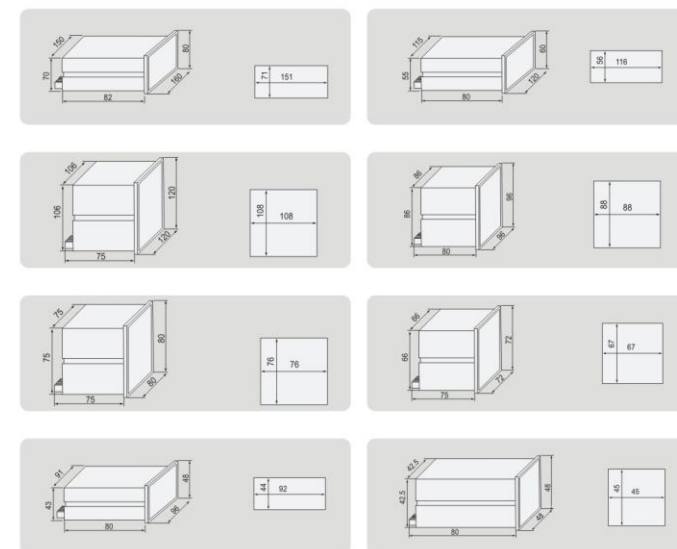


PD390E



A Series PA2001-3

Boundary Dimension and Hole Drawing



Mark	Boundary Dimension	Hole Size	Installation Length	Remark
1	160×80	152×72	82	16 Groove
2	120×120	108×108	75	42 Square
3	80×80	76×76	75	6 Square
4	120×60	116×56	80	46 Groove
5	96×48	92×44	80	5 Groove
9	96×96	88×88	75	96 Square
A	72×72	67×67	75	72 Square
D	48×48	45×45	80	Mini Square

DDSY39 DTSY3

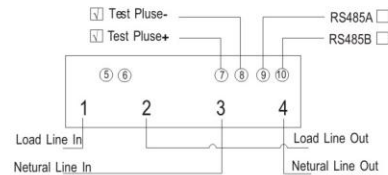


DDSY39

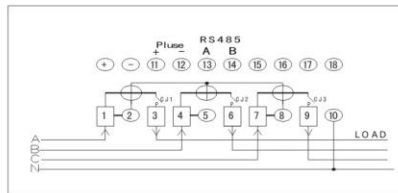


DTSY3

Rated voltage (V)	220V/230V/240V
Working Voltage Range	70%~115%Un
Rated current (A)	5(20)A,10(40)A,15(60)A,20(80)A or as required
Rated frequency	50/60Hz
Accuracy Class	Class1,Class2
Working Temperature	-45℃~70℃
Level of Protection	IP51
Display Mode	LCD
Pulse Constant	800/1600/3200/imp or as required
Standard	IEC62056-11 IEC6205-23
Communication Port	
Main functions	<ol style="list-style-type: none"> 1. Bidirectional active energy measurement 2. Pulse output with optical-coupling isolated 3. Reverse energy accumulated to positive energy 4. Anti-tampering feature. 5. LED display or LCD display 6. Over-load alarm and switch 7. Precaution alarm 8. Power down alarm 9. Purchase reminding



DDSY39 wiring diagram



DTSY3 wiring diagram

Single Phase 1P Din-rail Energy Meter

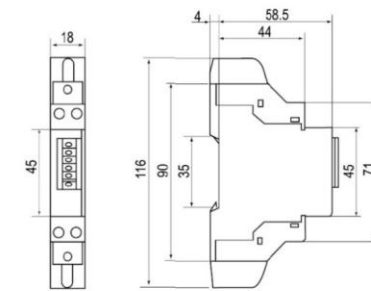


1-Ph 1P Energy Meter(DDS3-1Y)



1-Ph 1P Energy Meter(DDS3-1J)

Accuracy Class	1, 2
Voltage	AC240V/ AC220/AC120V/ AC110V
Current	1.5(6)A, 5(20)A, 5(25)A, 5(30)A, 5(32)A
Frequency	50/60Hz
Starting Current	0.4%Ib 0.5%Ib
Power consumption	≤5VA
Working Temperature	-25~55℃
Standard	IEC62053-21, IEC62052-11, DIN EN 5002, DIN43880, DIN43864



Single Phase 4P Energy Meter



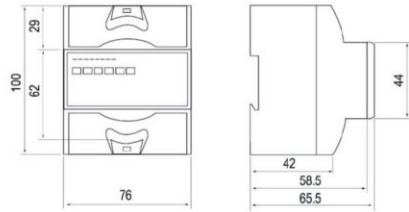
1-Ph 4P Energy Meter(DDS3-4J)

Accuracy Class	0.5, 1, 2
Voltage	AC240V/AC220V/AC120V/AC110V
Current	1.5(6)A,5(20)A,10(30)A,15(90)A,20(100)A, 5(40)A,5(100)A
Frequency	50 /60Hz
Starting Current	0.4%Ib 0.5%Ib
Power consumption	≅ 5VA
Working Temperature	-25~55°C
Insulating Property	2KV alternating voltage for 1min, impact voltage up to 6KV
Standard	IEC62053-21, IEC62052-11, DIN EN 5002, DIN43880, DIN43864
Communication	RS485 with Programmable Modbus-RTU OR DL/T645



1-Ph 4P Energy Meter

Name	Type	Display	Function
1-Ph 4P Din-rail Energy Meter	DDS3	Counter/LCD	Active Energy (RS485)
1-Ph 4P Din-rail Multi-Rate Energy Meter	DDSF3	LCD	Active Energy (4 Tariff 8 Periods/RS485)
1-Ph 4P Din-rail Multi-function Energy Meter	DDSD3	LCD	U/I/P/Q/S/F/PF/kWh/KVarh (4 Tariff 8 Periods/RS485)

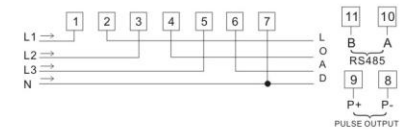
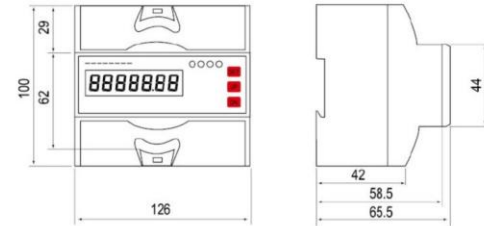


Three Phase 7P Energy Meter

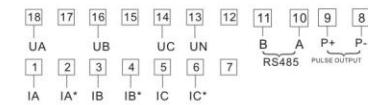


3-Ph 7P Energy Meter

Accuracy Class	0.5, 1, 2
Voltage	AC240V/AC220V/AC120V/AC110V
Current	1.5(6)A,5(20)A,10(30)A,15(90)A,20(100)A, 5(40)A,5(100)A
Frequency	50 /60Hz
Starting Current	0.4%Ib 0.5%Ib
Power consumption	≅ 5VA
Working Temperature	-25~55°C
Insulating Property	2KV alternating voltage for 1min, impact voltage up to 6KV
Standard	IEC62053-21, IEC62052-11, DIN EN 5002, DIN43880, DIN43864
Auxiliary Function	①4 Tariff, 8 Period, Calendar Setting ②Battery inside, Data will be stored more 10 year when power failure. ③Automatically error test
Communication	RS485 with Programmable Modbus-RTU OR DL/T645



Direct Connection



Mutual Inductor Connection