HDDS607 Single-phase Electronic Watt-hour Meter

Standard:IEC 620531-21

Function

HDDS607 single-phase watt-hour meter provide:

- Measuring the active energy in the single-phase AC power network with frequency of 50Hz or 60Hz.
- Measuring the active energy for enterprises, transformer substation or power substation. And be used as the automation meter in power transmission and distribution network.

Order Information

Function Description	Current specification	Reference
Type A (Import chip)	1.5(6)A	HDDS607N16M4A
Type A (Import chip)	2.5(10)A	HDDS607N110M4A
Type A (Import chip)	5(20)A	HDDS607N120M4A
Type A (Import chip)	5(30)A	HDDS607N130M6A
Type A (Import chip)	10(40)A	HDDS607N140M4A
Type A (Import chip)	15(60)A	HDDS607N160M4A
Type A (Import chip)	20(80)A	HDDS607N180M4A
Type A (Import chip)	30(100)A	HDDS607N1100M3A
Type C (Domestic chip)	1.5(6)A	HDDS607N26M4C
Type C (Domestic chip)	2.5(10)A	HDDS607N210M4C
Type C (Domestic chip)	5(20)A	HDDS607N220M4C
Type C (Domestic chip)	5(30)A	HDDS607N230M6C
Type C (Domestic chip)	10(40)A	HDDS607N240M4C
Type C (Domestic chip)	15(60)A	HDDS607N260M4C
Type C (Domestic chip)	20(80)A	HDDS607N280M4C
Type C (Domestic chip)	30(100)A	HDDS607N2100M3C
LCD without 485 communications	1.5(6)A	HDDS607N16M4CD
LCD without 485 communications	2.5(10)A	HDDS607N110M4CD
LCD without 485 communications	5(20)A	HDDS607N120M4CD
LCD without 485 communications	5(30)A	HDDS607N130M6CD
LCD without 485 communications	10(40)A	HDDS607N140M4CD
LCD without 485 communications	15(60)A	HDDS607N160M4CD
LCD without 485 communications	20(80)A	HDDS607N180M4CD
LCD with 485 communications	1.5(6)A	HDDS607N16M4CD485
LCD with 485 communications	5(20)A	HDDS607N120M4CD485
LCD with 485 communications	10(40)A	HDDS607N140M4CD485
LCD with 485 communications	15(60)A	HDDS607N160M4CD485
LCD with 485 communications and infrared communications	1.5(6)A	HDDS607N116M4CD485I
LCD with 485 communications and infrared communications	2.5(10)A	HDDS607N110M4CD485I
LCD with 485 communications and infrared communications	5(20)A	HDDS607N120M4CD485I
LCD with 485 communications and infrared communications	5(30)A	HDDS607N130M6CD485I
LCD with 485 communications and infrared communications	10(40)A	HDDS607N140M4CD485I
LCD with 485 communications and infrared communications	15(60)A	HDDS607N160M4CD485I
LCD with 485 communications and infrared communications	20(80)A	HDDS607N180M4CD485I
LCD with 485 communications and infrared communications	30(100)A	HDDS607N1100M3CD485I

Note: Users need special specifications can be customized

HDDS607 Single-phase Electronic Watt-hour Meter

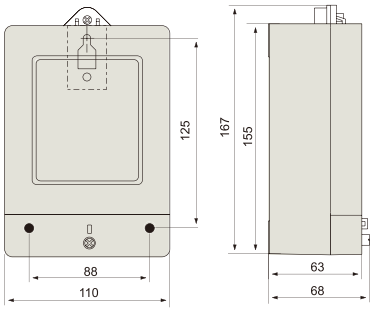
Standard:IEC 620531-21

Technical Data

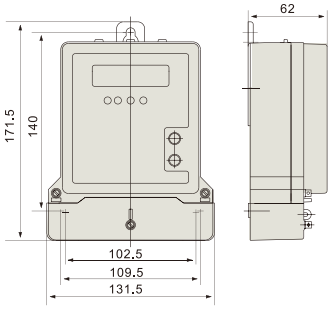
Standard	IEC 620531-21
Certificate	KEMA
Working voltage(V)	230V
Power loss	Voltage circuit ≤2W per10VA, Current circuit ≤4VA
Optional functions	LCD display, Infrared communication, 485 communication
Normal working temp.	-10℃~+45℃
Limited working temp.	-25℃~+55℃
Normal working voltage	0.9~1.1(Ref. voltage)
Limited working voltage	0.8~1.15(Ref. voltage)
Relative humidity	＜75%
Installation location	Should be installed in the height of 1.8m vertically and the angularity≤1°

Overall Dimensions

Unit: mm



Single-phase Type A,C Meter



Single-phase LCD Meter

HDTS607 Three-phase Four-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

Function

HDTS607 Three Phase four-wire watt-hour meter provide:

- ☐ Measuring the active energy in the three-phase four-wire AC power network at frequency of 50Hz or 60Hz.
- ☐ Measure the active energy of enterprises, transformer substation or power stations, and be used as automation meters of power transmission and distribution network.

Order Information

Voltage(V)	Grade	Current(A)	Reference
57.7/100	1	1.5(6)	HDTS607WY16M4
		3(6)	HDTS607WY16M2
230/400	1	1.5(6)	HDTS607NV16M4
		2.5(10)	HDTS607NV110M4
		3(6)	HDTS607NV16M2
		5(20)	HDTS607NV120M4
		10(40)	HDTS607NV140M4
		15(60)	HDTS607NV160M4
		20(80)	HDTS607NV180M4
		30(100)	HDTS607NV1100M3

NOTE: ☐"M" expresses the current multiple in the standard codes.

☐ Transformer function (H) is merely available for 1.5(6)A and 3(6)A.

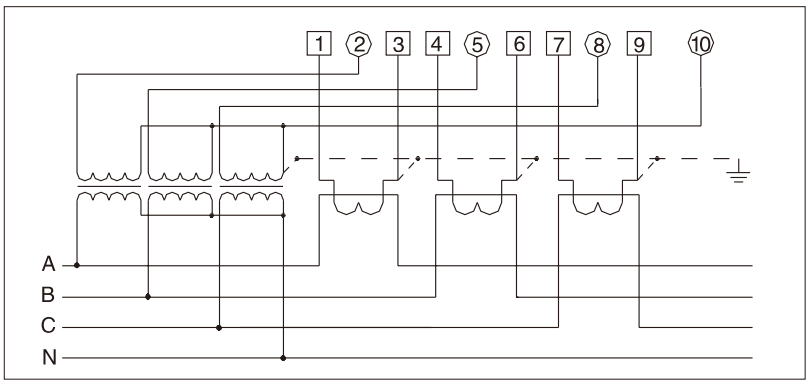
HDTS607 Three-phase Four-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

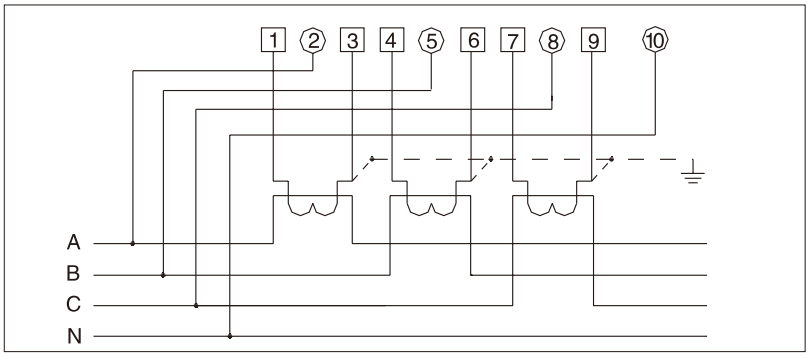
Technical Data

Working voltage	57.7/100V, 230/400V
Power loss	Voltage circuit≤2W per10VA, Current circuit≤4VA
Optional functions	LCD display, Infrared communication, 485 communication
Normal working temp.	-10℃～+45℃
Ultimate working temp.	-25℃～+55℃
Normal working voltage	0.9～1.1(Ref. voltage)
Ultimate working voltage	0.8～1.15(Ref. voltage)
Relative humidity	＜75%
Installation location	Should be installed in the height of 1.8m vertically and the angularity≤1°.

Wiring Diagram



■ Wiring diagram for 3 x 57.7/100V ≤3 x 3(6)A with voltage transformer

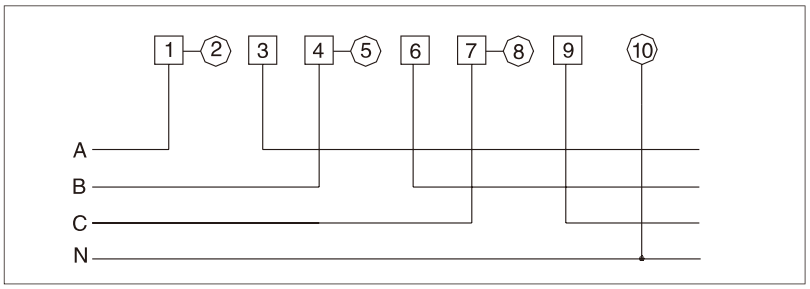


■ Wiring diagram for 3 x 230/400V ≤3 x 3(6)A with current transformer

HDTS607 Three-phase Four-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

Wiring Diagram

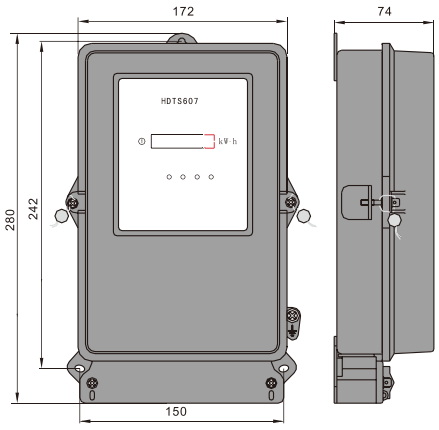


■ Wiring diagram for 3 x 230/400V ⩾3 x 2.5(10)A direct

■ Wiring diagram for impulse testing

Overall Dimensions

Unit: mm



HDSS607 Three-phase Three-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

Function

HDSS607 Single-phase electronic watt-hour meter provides:

- ☐ Measuring the active energy in the three-phase three-wire AC power network at frequency of 50Hz or 60Hz.
- ☐ Measure the active energy of enterprises, transformer substation or power stations, and be used as automation meters of power transmission and distribution network

Order Information

Voltage(V)	Grade	Current(A)	Reference
100	1	1.5（6）	HDSS607Y16M4
		3（6）	HDSS607Y16M2
400	1	1.5（6）	HDSS607V16M4
		3（6）	HDSS607V16M2
		5（20）	HDSS607V120M4
		10（40）	HDSS607V140M4
		15（60）	HDSS607V160M4
		20（80）	HDSS607V180M4
		30（100）	HDSS607V1100M3

NOTE: ☐"M" expresses the current multiple in the standard codes.

☐ Transformer function (H) is merely available for 1.5(6)A and 3(6)A.

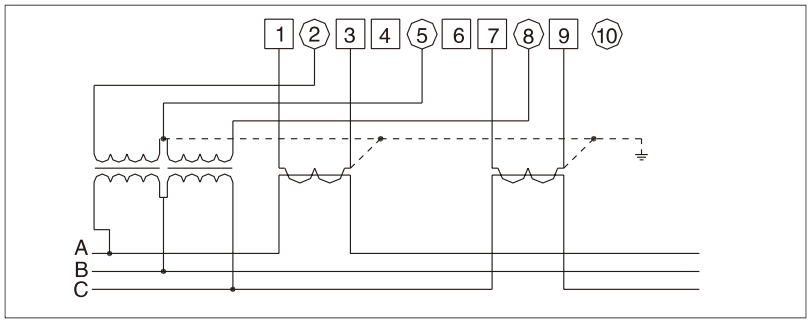
HDSS607 Three-phase Three-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

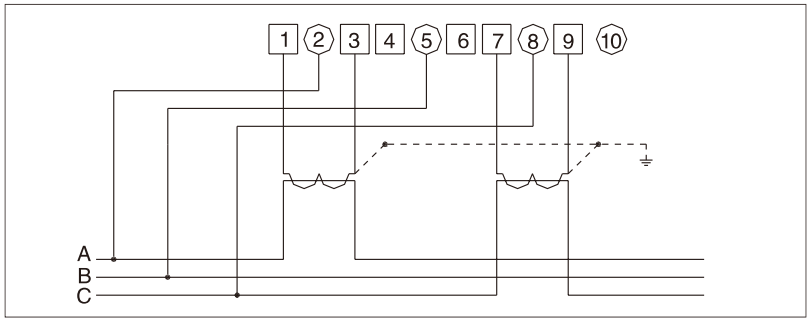
Technical Data

Standard	IEC 62053-21
Working voltage	100V 400V
Power loss	Voltage circuit ≤ 2W per 10VA, Current circuit ≤ 4VA
Optional functions	LCD display, Infrared communication, 485 communication
Normal working temp.	-10℃～+45℃
Ultimate working temp.	-25℃～+55℃
Normal working voltage	0.9～1.1(Ref. voltage)
Ultimate working voltage	0.8～1.15(Ref. voltage)
Average humidity	＜75%
Installation location	Should be installed in the height of 1.8m vertically and the angularity ≤ 1°.

Wiring Diagram



■ Wiring diagram for 3 x 100V ≤3 x 3(6)A with voltage transformer

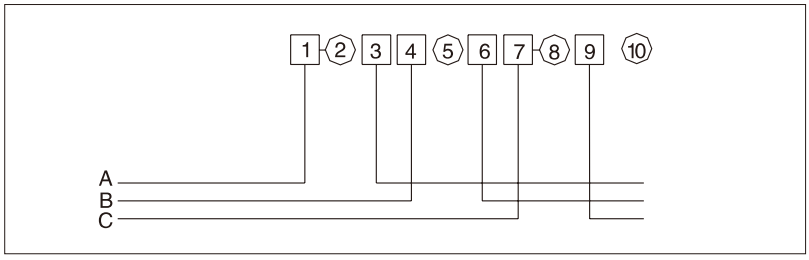


■ Wiring diagram for 3 x 400V ≤3 x 3(6)A with current transformer

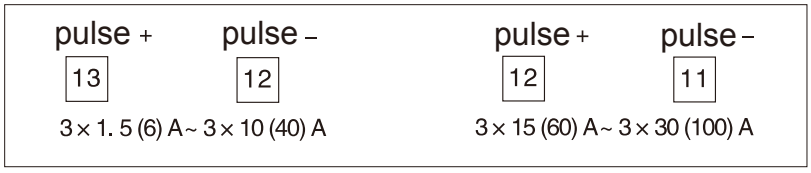
HDSS607 Three-phase Three-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

Wiring Diagram



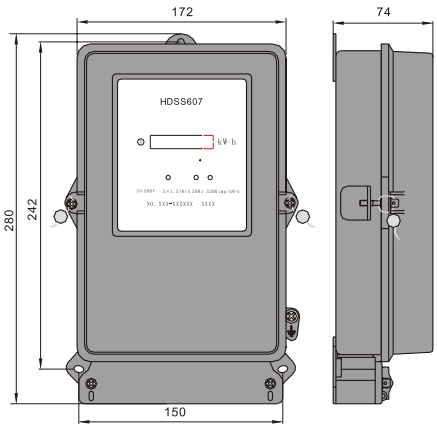
■ Wiring diagram for 3 x 400V ≥3 x 2.5(10)A direct



■ Wiring diagram for impulse testing

Overall Dimensions

Unit: mm



H72 Series Panel Meter

Standard: IEC 60051

Function

H72 series panel meter provide:

- H72T applies to measure the current, voltage or frequency in the AC circuit.
- H72C applies to measure the current or voltage in the DC circuit.
- Mainly be used as an indicating instrument for high or low-voltage switch cabinet, power supply cabinet, control cabinet and other electric-control facilities in the AC transmission circuit system

Order Information

Type	Accuracy rating	Specification	Note	Shape(mm)	Reference
Ammeter	1.5	30/5A	AC Type	72×72×67.5	H72TA30
		40/5A	External connection	72×72×67.5	H72TA40
		50/5A	transformer	72×72×67.5	H72TA50
		60/5A	2 times of current	72×72×67.5	H72TA60
		75/5A	overload	72×72×67.5	H72TA75
		80/5A		72×72×67.5	H72TA80
		100/5A		72×72×67.5	H72TA100
		150/5A		72×72×67.5	H72TA150
		160/5A		72×72×67.5	H72TA160
		200/5A		72×72×67.5	H72TA200
		250/5A		72×72×67.5	H72TA250
		300/5A		72×72×67.5	H72TA300
		400/5A		72×72×67.5	H72TA400
		600/5A		72×72×67.5	H72TA600
		800/5A		72×72×67.5	H72TA800
		1000/5A		72×72×67.5	H72TA1000
		1600/5A		72×72×67.5	H72TA1600
		5000/5A		72×72×67.5	H72TA5000
		10000/5A		72×72×67.5	H72TA10000
		5A	AC Type Direct connection	72×72×67.5	H72TA5A
	2.5	15A	AC Type	72×72×67.5	H72TA15A
		20A	Direct connection	72×72×67.5	H72TA20A
		25A	2 times of current	72×72×67.5	H72TA25A
		30A	overload	72×72×67.5	H72TA30A
		40A		72×72×67.5	H72TA40A
		50A		72×72×67.5	H72TA50A
		60A		72×72×67.5	H72TA60A
		80A		72×72×67.5	H72TA80A
		100A		72×72×67.5	H72TA100A
	1.5	5A	DC Type	72×72×67.5	H72CA5A
Voltmeter	1.5	300V	AC Type	72×72×67.5	H72TV300V
		500V		72×72×67.5	H72TV500V
		600V		72×72×67.5	H72TV600V
		500V	DC Type	72×72×67.5	H72CV5500V
Frequency meter	1.0	45-55HZ (200V)	AC Type	72×72×67.5	H72THZ01200V

H72 Series Panel Meter

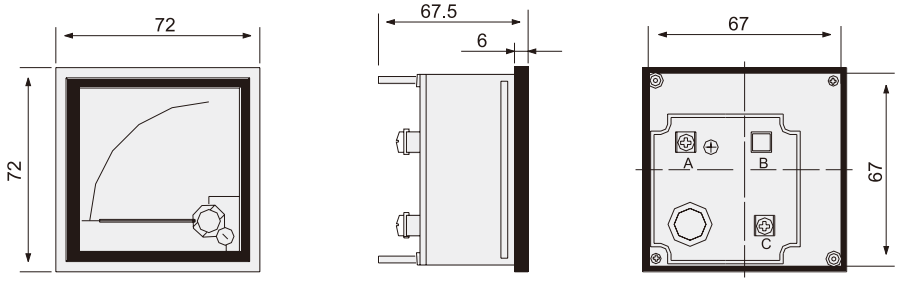
Standard: IEC 60051

Technical Data

Standard	IEC 60051
Dielectric strength test	Frequency 50/60Hz Voltage 2000V, duration 1 minute
Impact test	Max acceleration 147m/s^2
Response time	≤ 4s
Angular Deflection	90°
Temp.	-25℃~+40
Humidity	(25%~80%)RH
Environment	No mildew, insects, salt mist, dew in the air, few sands and dusts are permitted.
Installation	Shall be installed vertically

Overall Dimensions

Unit:mm



H96 Series Panel Meter

Standard: IEC 60051

Function

H96 series panel meter provide:

- H96T applies to measure the current, voltage or frequency in the AC circuit.
- H96C applies to measure the current or voltage in the DC circuit.
- Mainly be used as an indicating instrument for high or low-voltage switch cabinet, power supply cabinet, control cabinet and other electric-control facilities in the AC transmission circuit system

Order Information

Type	Accuracy rating	Specification	Note	Shape(mm)	Reference
Ammeter	1.5	30/5A	AC Type	96×96×67.5	H96TA30
		40/5A	External connection	96×96×67.5	H96TA40
		50/5A	transformer	96×96×67.5	H96TA50
		60/5A		96×96×67.5	H96TA60
		75/5A		96×96×67.5	H96TA75
		80/5A		96×96×67.5	H96TA80
		100/5A		96×96×67.5	H96TA100
		150/5A		96×96×67.5	H96TA150
		160/5A		96×96×67.5	H96TA160
		200/5A		96×96×67.5	H96TA200
		250/5A		96×96×67.5	H96TA250
		300/5A		96×96×67.5	H96TA300
		400/5A		96×96×67.5	H96TA400
		600/5A		96×96×67.5	H96TA600
		800/5A		96×96×67.5	H96TA800
		1000/5A		96×96×67.5	H96TA1000
		1600/5A		96×96×67.5	H96TA1600
		5000/5A		96×96×67.5	H96TA5000
		10000/5A		96×96×67.5	H96TA10000
		5A	AC Type Direct connection	96×96×67.5	H96TA5A
	2.5	15A	AC Type	96×96×67.5	H96TA15A
		20A	Direct connection	96×96×67.5	H96TA20A
		25A		96×96×67.5	H96TA25A
		30A		96×96×67.5	H96TA30A
		40A		96×96×67.5	H96TA40A
		50A		96×96×67.5	H96TA50A
		60A		96×96×67.5	H96TA60A
		80A		96×96×67.5	H96TA80A
		100A		96×96×67.5	H96TA100A
	1.5	5A	DC Type	96×96×67.5	H96CA5A
Voltmeter	1.5	300V	AC Type	96×96×67.5	H96TV300V
		500V		96×96×67.5	H96TV500V
		600V		96×96×67.5	H96TV600V
		500V	DC Type	96×96×67.5	H96CV500
Frequency meter	1.0	45-55HZ (200V)	AC Type	96×96×67.5	H96THZ01200V

H96 Series Panel Meter

Standard: IEC 60051

Technical Data

Standard	IEC 60051
Dielectric strength test	Frequency 50/60Hz Voltage 2000V, duration 1 minute
Impact test	Max acceleration 147m/s^2
Response time	≤ 4s
Angular Deflection	90°
Temp.	-25℃~+40
Humidity	(25%~80%)RH
Environment	No mildew, insects, salt mist, dew in the air, few sands and dusts are permitted.
Installation	Shall be installed vertically

Overall Dimensions

Unit:mm