



EU Type Examination Certificate Number: **0120/SGS0434**

# Zhejiang CHINT Instrument & Meter Co., Ltd

Wenzhou Bridge Industrial Zone  
Yueqing  
Zhejiang  
P.R. China

Instrument Identification:  
**DDSU666, DDSU666-CT**

**Single-phase, Active Import/Export kWh, DIN Rail, Transformer Operated/Direct Connected,  
Smart, Electricity Meter**

Instrument Traceable Number  
**0120/SGS0434**

has been assessed and certified as meeting the requirements of

## **EU Directive 2014/32/EU** **on Measuring Instruments Annex II, Module B**

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex V of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F


**This certificate is valid for 10 years from xx xxxxxxx 20xx until xx xxxxxx 20xx**  
**Issue 1**

Certification is based on report number(s) SHES190501593601 dated 5<sup>th</sup> March 2020,  
EMA273816/1

Authorised Signature


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## 1. Technical Data

<b>Manufacturer</b>	Zhejiang CHINT Instrument & Meter Co., Ltd.
<b>Meter Type</b>	DDSU666 DDSU666-CT
<b>Voltage Rating (<math>U_n</math>)</b>	220V – 240V
<b>Current Rating (<math>I_{min}</math> – <math>I_{ref}</math> (<math>I_{max}</math>))</b>	DDSU666: 0.25-5(80)A DDSU666-CT: 0.015-1.5(6)A
<b>Frequency (<math>F_n</math>)</b>	50Hz
<b>Active Accuracy Class (<math>kWh</math>)</b>	DDSU666: Class B DDSU666-CT: Class C
<b>Type of circuit</b>	1p2w
<b>Temperature Range</b>	-25°C to +55°C
<b>Software/ Firmware Version No's</b> <b>CRC Checksum No's</b>	DDSU666: V5.03 DDSU666-CT: V1.02  DDSU666: A596 DDSU666-CT: 43C7
<b>Identification Location</b>	LCD
<b>Bill Of Materials Number</b>	Rev X
<b>IP Rating</b>	IP51
<b>Insulation Protective Class</b>	Class II
<b>LED Pulse Constant</b>	DDSU666: 800imp/kWh DDSU666-CT: 6400imp/kWh
<b>Impulse Voltage Rating</b>	6kV
<b>AC Voltage Rating</b>	4kV
<b>Main Cover Sealing Type</b>	Tamper proof sealing tape
<b>Integrity of meter</b>	Inaccessible without breaking seals
<b>Intended Location of the Meter</b>	Indoor
<b>Type of Register</b>	LCD
<b>Terminal Arrangement(s)</b>	DIN
<b>Location of Manufacturers Address</b>	Associated Documents

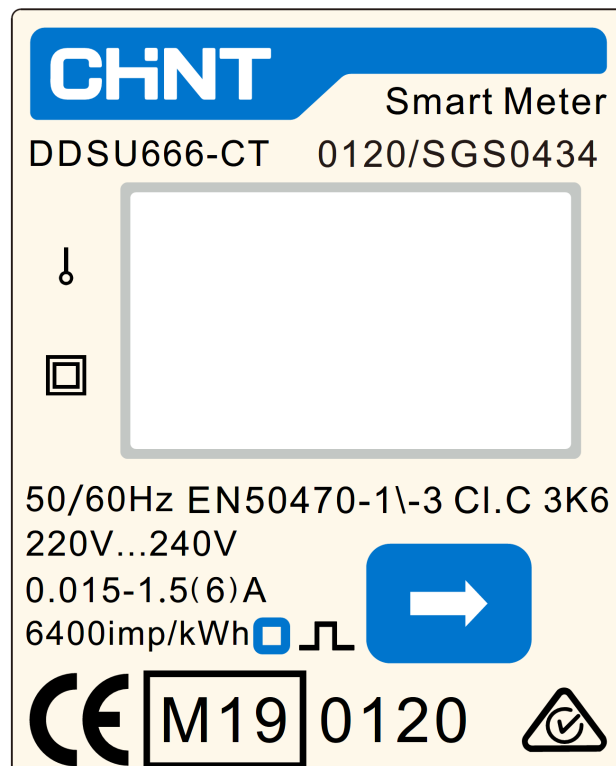
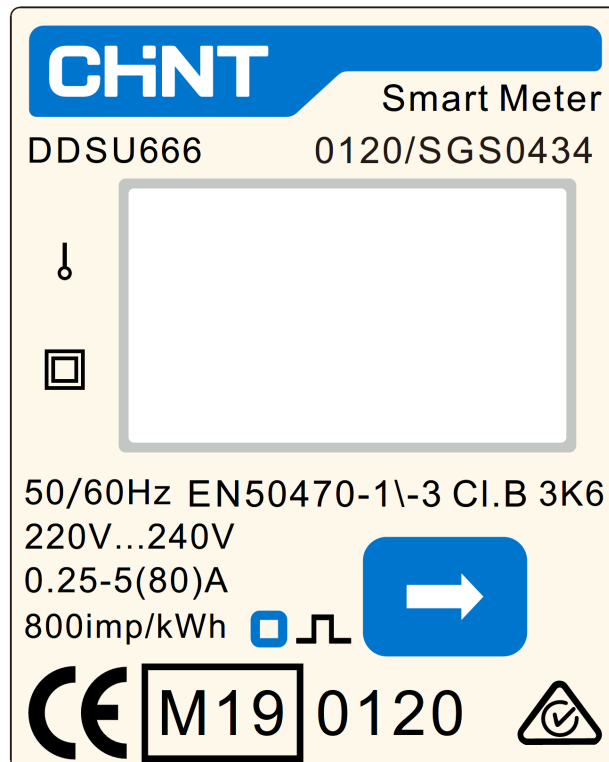
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2.      Photographs of Meters and Example of Sealing Plan



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### Examples of Nameplates



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### 3. Calculation of the composite error/ MPE

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table below represents the sum of the square values per load, determined via the following formula:-

$$\delta e(T, U, f) = \sqrt{(\delta e^2(T, I, \cos\phi) + \delta e^2(U, I, \cos\phi) + \delta e^2(f, I, \cos\phi))}$$

where


$\delta e(T, I, \cos\phi)$  = Additional error due to variation of the temperature at the same load  
 $\delta e(U, I, \cos\phi)$  = Additional error due to variation of the voltage at the same load  
 $\delta e(f, I, \cos\phi)$  = Additional error due to variation of the frequency at the same load

#### DDSU666-CT

		Influence Factors for temperature, frequency and voltage					
Current	PF Cos	-25	-10	5	30	40	55
Imin	1.0	0.61	0.46	0.35	0.29	0.39	1.22
Itr	1.0	0.58	0.35	0.18	0.05	0.12	0.44
10Itr	1.0	0.61	0.36	0.17	0.04	0.07	0.13
I <sub>max</sub>	1.0	0.62	0.37	0.18	0.04	0.07	0.12
Itr	0.5ind	0.46	0.27	0.17	0.09	0.13	0.69
10Itr	0.5ind	0.53	0.28	0.16	0.04	0.07	0.09
I <sub>max</sub>	0.5ind	0.51	0.29	0.14	0.12	0.16	0.19
Itr	0.8cap	0.66	0.40	0.21	0.07	0.14	0.59
10Itr	0.8cap	0.64	0.39	0.18	0.04	0.08	0.16
I <sub>max</sub>	0.8cap	0.63	0.37	0.16	0.03	0.06	0.13

#### DDSU666

		Influence Factors for temperature, frequency and voltage					
Current	PF Cos	-25	-10	5	30	40	55
Imin	1.0	0.65	0.66	<b>0.67</b>	<b>0.66</b>	<b>0.66</b>	<b>0.65</b>
Itr	1.0	0.31	0.31	0.31	0.31	0.31	0.31
10Itr	1.0	0.05	0.05	0.05	0.05	0.05	0.05
I <sub>max</sub>	1.0	1.39	1.44	1.50	1.54	1.54	1.54
Itr	0.5ind	0.64	0.64	0.64	0.64	0.64	0.64
10Itr	0.5ind	0.07	0.07	0.06	0.07	0.07	0.09
I <sub>max</sub>	0.5ind	0.20	0.10	0.05	0.07	0.07	0.07
Itr	0.8cap	0.38	0.38	0.38	0.39	0.39	0.38
10Itr	0.8cap	0.06	0.05	0.06	0.06	0.06	0.05
I <sub>max</sub>	0.8cap	0.21	0.12	0.06	0.10	0.10	0.11


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#### 4. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
DDSU666	Direct Connected, 220-240V, 5(80)A
DDSU666-CT	Transformer Operated, 220-240V, 5(6)A

Modifications to the meter(s) described according to approval No.**0120/SGS0434** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).

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## 5. Document Revision History

Issue	Date	Comments
1	dd/mm/yyyy	Initial Issue

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**END OF CERTIFICATE**