

DTZY256, DDZY256 Series Smart Meter

DDZY256
(QSM11-1)



BS



DIN



CIU

1 Overview

1. Measurement of import/ export active energy, current energy balance, instant voltage, current, power.
2. Pre-payment function, and prepayment is loaded through 20-digit token
3. Tariffs function: support TOU tariffs and step tariff
4. Load control function Load limit configurable.
5. Events detection and record function, include cover opening, reverse, overload etc
6. Remote switch control functions: remote switch disconnect/ reconnect.
7. Message alarm function: the meter will inform users By sending message if disconnect when energy Reaches zero or power overload etc.
8. RTC: clock with calendar, timing, leap year Automatic conversion function.
9. Alarm by LED/Buzzer when low credit , overload, tamper.
10. Relay control: (1) the internal relay will be switched off when the top cover is opened (2) overload (3) out of remaining balance (4)RTC battery power down

2 Technical parameters

Specification		BS	DIN
Standards		IEC 62052-11:2003 IEC 62053-21:2003	IEC 62053-21:2003
Accuracy	Accuracy	1.0	1.0
Voltage	Rated	230V	230V
	Range	0.8Un~1.2Un	0.8Un~1.2Un
	Limit	1.7Un~1.3 Un	1.7Un~1.3 Un
Frequency		50Hz	50Hz
Current	Range	5(60)A, 5(80)A, 5(100)A	5(60)A, 5(80)A, 5(100)A
Starting Current		≤0.4%Ib	≤0.4%Ib
Constant	Active	1000 imp /KWh	1000 imp /KWh
Display	Type	LCD	\
	Digit	6+2	\
Power Consumption	Voltage Circuit	≤1.0W,10VA	≤1.0W,10VA
	Current Circuit	≤1VA	≤1VA
Communication	Interface	Optical, PLC, RF Mbus	Optical, PLC, RF Mbus, SCSSCAA9
Temperature Condition	Work Temperature	-25°C~+55°C	-25°C~+55°C
	Storage Temperature	-35°C~+70°C	-35°C~+70°C
Humidity		≤85°C	≤85°C
IP grade		IP54	IP54
Dimension		203×110×60mm	203×110×60mm
Weight	Net / Gross	0.5kg/1.0kg	0.5kg/1.0kg

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BS



1 Overview

1. Measurement of import/export active energy, current energy balance, instant voltage, current, power.
2. TOU multi-tariff: 12 tariff schedules, 8 tariffs, 12 season charts, 25 special days
3. Events detection and record function, include cover opening, reverse, overload etc
4. Remote switch control functions: remote switch disconnect/ reconnect.
5. Communication function: with GPRS, 3G, PLC, RF, RS485 and optical Port.
6. RTC: clock with calendar, timing, leap year Automatic conversion function.
7. Demand calculation: interval type or slip type alternatively, Demand interval time can be programmed as 15/30/60 mins
8. Power grid detection and recording: record the overvoltage, under voltage, over current, power down, Unbalance current event and record the latest 10 events
9. Display: automatic rotation display and manual keyboard display, the display item is programmable
10. Switchable between Prepaid and Postpaid function.

2 Technical parameters

Specification		DDZY256(QSM11-1)	
Standards		IEC 62052-11:2003 IEC 62055-41	IEC 62053-21:2003 IEC 62056-21
Accuracy	Accuracy	1.0	1.0
Voltage	Rated	127V, 230V	230V
	Range	0.8Un~1.2Un	0.8Un~1.2Un
	Limit	1.7Un~1.3 Un	1.7Un~1.3 Un
Frequency		50Hz/60Hz	50Hz
Current	Range	5(80)A	5(60)A, 5(80)A, 5(100)A
Starting Current		≤0.4%Ib	≤0.4%Ib
Constant	Active	1000 imp /KWh	1000 imp /KWh
Display	Type	LCD	\
	Digit	6+2	\
Power Consumption	Voltage Circuit	≤1.0W, 10VA	≤1.0W, 10VA
	Current Circuit	≤1VA	≤1VA
Communication	Interface	Optical, PLC, GPRS, 3G, RF, PLC	Optical, PLC, RF Mbus, SCSSCAA9
Temperature Condition	Work Temperature	-25°C~+55°C	-25°C~+55°C
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