



指ZHIMING明 Tel: 86-577-62870600 / E-mail: wangdewey80@yahoo.com [http:// www.chinameter.cc](http://www.chinameter.cc)

DTSF450 three phase multi tariff kwh meter



DTSF450/DSSF450 series three-phase static multi-function Energy meter, designed to satisfy industrial demand, adopts LSI, digital sampling technology and SMT process. It features stable capability, high precision and easy operation.

The product conforms to all technical requirements specified in IEC 687 Alternating current static watt-hour meters for active energy (classes 0.2s and 0.5s) IEC1268 Alternative current static watt-hour meters for reactive energy (class2 and 3) and IEC 1107 Data exchange for meter reading, tariff and load control-direct local data exchange. The meter has the functions of measuring active/reactive energy and demand in all directions, RS485 port communication, manual and infrared waking up during power break, load record and so on.

Functions

- (1) Active and reactive energy measurement
- (2) Energy consumption record of every month
- (3) Max demand record
- (4) Multi-tariff energy measurement
- (5) Voltage loss record
- (6) Bypass current record
- (7) Over voltage record
- (8) Demand load curve record
- (9) IEC 1107 infrared communication
- (10) Single Rs485 port communication
- (11) Reading during power break
- (12) Waking up during power break
- (13) Infrared waking up
- (14) Remote output
- (15) 1Hz second signal output
- (16) Data scroll display or key display



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Technical Data Basic parameters

Applicable Standard	IEC 687,IEC1268,IEC1107		
Accuracy class	Active: Class 0.5s Reactive: Class 2		
Reference frequency	50Hz		
Potential	With anti-potential logic design		
Starting current	Active: 0.001 In (transformer connected) Reactive: 0.003 In		
Service life	10 years		
outline dimension	278mm×174mm×77mm		
Installation size	241×150mm		
Net weight	2.5kg		
Gross weight	2.8kg		
Carton weight (4 pieces)	12kg		
Electric parameters			
Normal working voltage	0.9Un~1.1Un		
Limit working voltage	0.75Un~1.15Un		
voltage circuit power consumption	≤2W or 5VA		
Current circuit power consumption	≤1VA		
Voltage of battery for data storing	3.6VDC		
voltage of battery for data reading	6.0VDC		
Tariff working parameters			
Clock accuracy	Daily error less than 0.5s (23℃)		
Battery capacity	≥1000mAh		
Data storing time after power break	≥10 years (using new battery)		
Climatic conditinos			
Normal working temperature	-20℃~+40℃	Tariffs	4
Limit working temperature	-30℃~+60℃	Times periods	10
Storage and transport temperature	-40℃~+70℃	Display	LCD
Storage and transport humidity	≤85%	Communication baud rate	300bps~9600bps
		Communication method	Direct local data exchange
		Communication protocol	IEC 1107

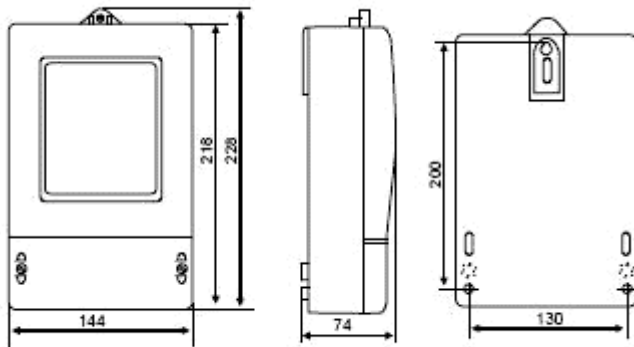


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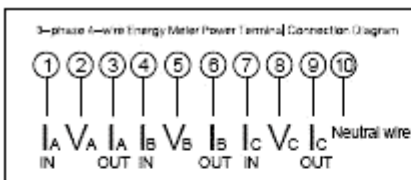
Specification

Three-phase four-wire	DTSF450
Three-phase three-wire	DSSF450
Reference voltage:	3×220/380V 3×57.7/100V(four-wire) 3×100V(three -wire)
Basic (Maximum) current:	3×1.0A,3×1.5(6)A,3×3(6)A,3×5(20)A,3×10(40)A,3×15(60)A,3×20(80)A,3×30(100)A

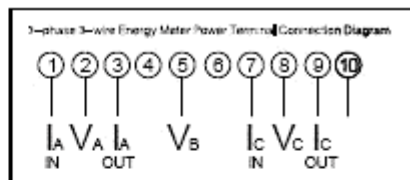
Outline & installation size



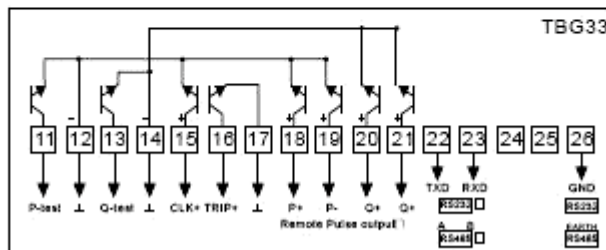
Connections



A) power terminal connection diagram (three-phase four-wire)



B) power terminal connection diagram (three-phase three-wire)



C) Auxiliary function terminal connection diagram