



Static Three-phase Multi-function Watt-hour Meter Series

Primary products of DTSD178/DSSD178/DTSD179/DSSD179 series are shown below:

Type	Mode	Accuracy Classes		Rated Voltage	Pulse Constants		Standard
		Active	Reactive		Active	Reactive	
DSSD178	3P3W	0.5S	2.0	3 x 100V	5000 imp/kVarh	5000 imp/kVarh	GB/T7883.1999 IEC60687:1992
DTSD178	3P4W	0.5S	2.0	3x57.7/100V 3x220/380V 3x230/400V			
DSSD179	3P3W	1.0	2.0	3 x 100V			
DTSD179	3P4W	1.0	2.0	3x57.7/100V 3x220/380V 3x230/400V			GB/T17215.2002 IEC61036:1996

Other types are available at the request of the user.



DSSD178



DSSD179



Features

- Low power consumption design, power consumption in a circuit is less than 1W, 2VA
- A switching power supply, wide-voltage power supply (0.5~1.3 rated voltage)
- High ability to sustain overvoltage, the upper limit of the input line voltage of all the products is 200V(AC)
- Careful design of hardware and software for reliability, the ability of self-diagnostics is high.
- High speed AC sampling with high precision that ensures the reliable measurement of electric energy.
- Measurement, storage and display for active and reactive energy in both directions, with four quadrant reactive energy and maximum demand and occurrence times, etc.
- Reliable measurement of the voltage, current, active & reactive power, power factors and apparent power of the three phases in real time.
- Recording events such as missing voltage, phase break, Max & Min voltage, Max & Min power factor, voltage allowance rate, settings, clear energy, clear demand, system alarm etc.
- Time-of-Use metering, maximum 9 tariff rates, 12 time zone, 10 time segments tables and 12 time segments in a day.
- The display contains a continuous loop display and key press switch display which can be set by the user.
- Copies meter data backup during power failure with built-in battery, wake up by key press or remote control (optional).
- Maximum two outputs of overload alarms (optional).
- Load profile (optional).
- Providing RS485, RS232 and local optical port, the communication speed can be set between 1200bps and 4800bps, supporting local and remote maintenance and reading, with the possibility of using 2 RS485 ports.
- Remote communication is in accordance with DL/T 645-1997 and IEC 1107 data transport protocol, facilitating connection to metering devices of other vendors.
- IP communication with GPRS (optional).
- Integrated clock and calendar, automatic leap year compensation, accuracy less than 0.5 sec/day, time calibrated through the network.
- Temperatur Range:
 - Operating: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
 - Limited: $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$
 - Storage: $-35^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Housing = protection against tampering, smaller volume, Dimensions : (248 x 175 x 70 mm), Weight: about 1.5 kg.