

Smart Power Sensor



Accurate

Class 1 measurement accuracy



Simple & Easy

LCD display, easy to set and check



Energy Efficient

Overall power consumption ≤ 1.5 W

Technical Specification

DTSU666-H 250A/50mA

SmartPS-80AI-T0

General Data

Dimension (W × H × D)	72 x 100 x 65.5 mm	72 x 100 x 80 mm
Mounting type	DIN35 Rail	
Weight (including cables)	≤ 1.5 kg	≤ 0.99 kg
Height requirement of cabinet	≥ 52 mm	≥ 62 mm

Power Supply

Power grid type	3P4W/3P3W	3P4W/3P3W
Input voltage (line voltage)	176 ~ 288 Vac	90 ~ 500 Vac
Power consumption	≤ 1 W	≤ 1.5 W

Measurement Range

Line voltage	304 ~ 499 Vac	90 ~ 1000 Vac (> 500 with external PT ¹)
Phase voltage	176 ~ 288 Vac	52~577 Vac
Current	0 ~ 250 A	0 ~ 80 A(>80 with external CTs ²)

Measurement Accuracy

Voltage / Current	± 0.5 %
Power / Energy	± 1 %
Frequency	± 0.01 Hz


Communication

Interface	RS485	
Baud rate	9,600 bps	4800/9600/19200/115200 (Default 9600bps)
Communication protocol	Modbus-RTU	

Environment

Operating temperature range	-25 °C ~ 60 °C
Storage temperature range	-40 °C ~ 70 °C
Operating humidity	5 %RH ~ 95 %RH (non-condensing)

Others

Accessories	RS485 Cable (10 m / 33 ft.)	/
	3 CT 250 A/50 mA (5 m) 	/

¹ 2nd voltage of CT should be 100V. And accuracy should be better than Class 0.5
² 2nd current of PT should be 1A or 5A. And accuracy should be better than Class 0.5