

### **Sungrow Energy Meter Selection Guide**

The Sungrow Energy Meter presents a clear overview of energy consumption in combination with Sungrow iSolarCloud. The Sungrow Energy Meter is ideally suited for use with the Sungrow single-phase inverters and three-phase string inverters.

Туре	Inverter type of application	CT requirement
S100	SG2/2.5/3K-S, SG3/5/8K-D, SH5K-30	External. CT Included with meter
DTSU666	SG2/2.5/3K-S, SG3/5/8K-D, SH5K-30, SG5/10KTL-MT, SG15/20KTL-M, SG30CX, SG5.0/6.0/7.0/8.0/10/12/15/17/20RT, SH5.0/8.0/10RT	CT is integral to meter
T65 (Discontinued)	SG5/10KTL-MT, SG15/20KTL-M, SH5.0/8.0/10RT	CT is integral to meter
		CT must be purchased separately as per the requirements of the power supply. The CTs Sungrow recommended list as below: IPD CTME-3 Series for Single Turn Primary
DTSD1352-C/1(6)A		<ul> <li>a. 150A, CTME3150</li> <li>b. 200A, CTME3200</li> <li>c. 300A, CTME3300</li> <li>d. 400A, CTME3400</li> <li>e. 500A, CTME3500</li> </ul>
	SG30CX*, SG50CX, SG110CX. (Must be used in conjunction with Logger1000 or EyeM4 Dongle)	SOCOMEC TCA 21/TCA14 SERIES a. 75A, TCA21-75/5 b. 80A, TCA21-80/5 c. 100A, TCA21-100/5 d. 125A, TCA21-125/5 e. 150A, TCA21-150/5 f. 200A, TCA21-200/5
	* only applicable for the phase current>80A	SOCOMEC TCB 18 - 20 SERIES a. 100A, 192T3310 b. 150A, 192T3315 c. 200A, 192T3320 d. 250A, 192T3325

Above CTs are only recommended for customers. Customers also can select the CTs by themselves.

#### Selection criteria for choosing the CT's:

#### • Primary current

The CT's primary current should be equal to or greater than the maximum expected AC current from the grid, per phase. The closer the expected AC current is to the chosen primary current value, the more precise the measurement will be.

#### · Secondary current

5 A

#### · Accuracy class

Class 0.5 or better (Class 0.2, etc.) is recommended. Class 0.5 is equivalent to a deviation of  $\pm$  0.5% of the secondary current at maximum power.

### **S100** Single-phase Smart Energy Meter



Type designation	S100	
Electrical Parameter		
Nominal voltage	240 Vac	
Input voltage range	180 Vac - 286 Vac	
Power consumption	<2W (10 VA)	
Max. operating current	100 A	
Grid frequency	50 Hz	
Measurement accuracy	Class 1	
Interface and communication	RS485	
Environmental Condition		
Ingress protection rating	IP20	
Operating ambient temperature	-25 to 75 °C	
Relative humidity	0 - 95 %	
Mechanical Data		
Dimensions (W * H * D)	18 * 117 * 65 mm	
Weight	0.2 kg	
Installation	35 mm DIN-rail	

## **T65** Three-phase Smart Energy Meter



Type designation	T65	
Electrical Parameter		
Nominal voltage	230 Vac / 400 Vac	
Input voltage range	180 Vac - 286 Vac	
Power consumption	<2W (10 VA)	
Max. operating current	65 A	
Grid frequency	50 Hz	
Measurement accuracy	Class 1	
Interface and communication	RS485	
Environmental Condition		
Ingress protection rating	IP20	
Operating ambient temperature	-25 to 70 °C	
Relative humidity	0 - 95 %	
Mechanical Data		
Dimensions (W * H * D)	85 * 72 * 72 mm	
Weight	0.4 kg	
Installation	35 mm DIN-rail	



### **DTSU666**



Type designation	DTSU666			
Electrical Parameter				
Nominal voltage	230 Vac / 400 Vac			
Input voltage range	57.7 / 100 Vac - 265 / 460 Vac			
Power consumption	< 1.5W (6 VA)			
Max. operating current	80 A			
Grid frequency	50/60 Hz			
Measurement accuracy	Class 1			
Interface and communication	RS485			
Environmental Condition				
Ingress protection rating	IP20			
Operating ambient temperature	-30 °C - +60 °C			
Relative humidity	75 %			
Mechanical Data				
Dimensions (W * H * D)	72 * 65* 100 mm			
Weight	0.4 kg			
Installation	35 mm DIN-rail			

# DTSD1352-C/1 (6)A\* Three-phase Smart Energy Meter

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Type designation	DTSD1352-C/1 (6)A	
Electrical Parameter		
Nominal voltage	230 Vac / 400 Vac	
Input voltage range	57.7 / 100 Vac - 268 / 464 Vac	
Power consumption	<2W (10 VA)	
Max. operating current	3×1 (6) A (via CTs)	
Grid frequency	50 Hz / 60 Hz	
Measurement accuracy	Class 0.5 (Active)	
Interface and communication	RS485	
Environmental Condition		
Ingress protection rating	IP20	
Operating ambient temperature	-25 to 55 °C	
Relative humidity	0 - 95 %	
Mechanical Data		
Dimensions (W * H * D)	126 * 91 * 74 mm	
Weight	0.35 kg	
Installation	35 mm DIN-rail	

\* DTSD1352-C/1 (6)A needs to be used with CT externally.