

Application Note- Smart Power Sensor: DTSU666-HW/YDS60-80

Revision History

Version 1.0 July, 2022 – Initial release

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Code	Model	Description
20023002	DTSU666-HW/YDS60-80	three-phase intelligent power collector, 485 communication, three-channel voltage detection, three-channel current detection, built-in 80A CTs/supporting external CTs
Description	Type DTSU666-HW/YDS60-80 Smart Power Sensor provides 2 current input channels. Channel 1 can be directly connected to power cable in series, in other word it operates without external CTs. With this channel the Sensor can measure 80A current at most. In contrast, Channel 2 is designed for larger current range. It has to be used with external CTs, whose secondary current can be 1A or 5A. In a word, design of PV system will be more flexible with these 2 channels.	
Region	Global	
Diagram	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p>Channel 1:</p> <p>3P4W: 3P3W:</p> </div> <div style="width: 45%;"> <p>Channel 2:</p> <p>3P4W: 3P3W:</p> </div> </div>	
Related Documents	<p>Quick Guide:</p> <p>《DTSU666-HW Smart Power Sensor Quick Guide》 https://support.huawei.com/enterprise/zh/doc/EDOC1100242206 《YDS60-80 Smart Power Sensor Quick Guide》 Available after 2022.07.15</p>	
Notes	<ol style="list-style-type: none"> There are different types of Sensors contained in this code. Huawei will deliver any type of them at random, because the functions are the same. The secondary winding cannot be open-circuit, while its primary winding is energized. DTSU666-H 250A/50mA is recommended if $I < 250A$. If $I > 250A$, DTSU666-HW/YDS60-80 with external CT is recommended. 	
Requirement of CTs	<ol style="list-style-type: none"> Secondary current should be 1A or 5A Accuracy should be better than Class 0.5 	
Availability	Sales order (FOB) for DTSU666-HW/YDS60-80 will be accepted from 30 th June, 2022. (Shipment starts from 30 th June, 2022, FOB China Based)	