

文档名称 文档密级

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Manufacturer's Declaration

VDE application guide 2510-2 Stationary electrical energy storage systems for connection to the low-voltage grid

Huawei Digital Power Technologies Co., Ltd. hereby confirms that the Huawei energy storage system meets the requirements of VDE-AR-E 2510-2:2015-09

The energy storage system for increased self-consumption is made up of the following components:

• Three-Phase INVERTER (三相逆变器)

Product: SOLAR INVERTER (太阳能逆变器)

Models: SUN2000-3KTL-M1, SUN2000-4KTL-M1, SUN2000-5KTL-M1, SUN2000-6KTL-M1, SUN2000-8KTL-M1, SUN2000-10KTL-M1, SUN2000-25K-MB0, SUN2000-20K-MB0, SUN2000-17K-MB0, SUN2000-15K-MB0, SUN2000-15K-MB0, SUN2000-12K-MAP0, SUN2000-10K-MAP0, SUN2000-8K-MAP0, SUN2000-6K-MAP0, SUN2000-5K-MAP0, SUN2000-5K-MAP0, SUN2000-12K-MAP0

• Single-Phase INVERTER(单相逆变器)

Product: SOLAR INVERTER

Models: SUN2000-2KTL-L1, SUN2000-3KTL-L1, SUN2000-3.68KTL-L1, SUN2000-4KTL-L1, SUN2000-4.6KTL-L1, SUN2000-4.6KTL-L1, SUN2000-3.68K-LB0, SUN2000-3K-LB0, SUN2000-3K-LB0

- Smart Power Sensor智能功率传感器: DDSU666-H(Single Phase), DTSU666-H 250A (Three Phase)
- Energy Storage System (LUNA2000-5/7-S1、LUNA2000-10/12/14-S1、LUNA2000-15/17/19/21-S1)
 - Energy Storage Module/Battery (LANA2000-7-E1 LANA2000-5-E1)
 - Energy Storage Control Unit (LUNA2000-10KW-C1)

Note: For the details of the product, please see www.solar.huawei.com



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Information on VDE-AR 2510-2

4	Transport for installation	
4.1	General requirements	Р
4.2	Lead-acid batteries	N/A
4.3	Lithium batteries	Р
5	Requirements for electrical energy storage systems	
5.1	Requirements for the safe use and operation of stationary	Р
	energy storage systems	
5.2	Requirements for the installation site of stationary energy	Р
	storage systems	
5.2.1	General	Р
5.2.2	Areas	Р
5.2.3	General requirements for the placing of batteries	Р
5.2.4	Additional requirem ents for cabinets or boxes inside or outside	Р
	buildings	<u> </u>
6	Electrical installation	
6.101	General	Р
6.102	Symmetry requirements	Р
6.102.1	Symmetry requirements in isolated operation	Р
6.102.2	Symmetry conditions in grid-connected operation	Р
6.102.2.1	Single-phase energy storage systems	Р
6.102.2.2	Three-phase energy storage systems	Р
6.103	Voltage quality	Р
6.410	Protection against electric shock in isolated operation	Р
6.410.2.1	Isolated operation in IT systems	Р
6.410.2.2	Isolated operation with TN system	Р
6.430.101	Overcurrent protection	Р
6.530	Switchgear and control gear	Р
6.530.1	Selection of residual current devices (RCD)	Р
6.530.1.1	Residual current devices (RCD) for AC systems	Р
6.530.1.2	Residual current devices (RCD) for DC systems	Р
6.536	Devices for switching toisolated operation	Р
6.538	Insulation monitoring devices	Р
6.540	Earthing arrangements and protective earth conductors	Р
6.551.1	Operating modes of energystorage systems	Р
6.551.2	Coordination with decentralized generating plants (EZA) in	Р
	isolated operation for power limitation	
6.600	Tests	Р
6.600.1	Initial and recurring tests	Р
6.600.2	Inspection	Р
6.600.3	Testing and measurement	Р
6.600.3.1	Continuity of conductors	Р



6.600.3.2	Insulation resistance of the electrical installation	Р
6.600.3.3	Protective measure "automatic disconnection of supply"	Р