Manufacturer's Declaration on the current State of Standardisation

Herstellererklärung zum aktuellen Normungsstand

Product	**plug protected against hazardous live parts, seplugs SEP plug** *[Safe Energy Plug-In]*
Product name	**SEP 1.16 series / SEP 0.16 series**
Manufacturer	**seplugs GmbH, Ringbahnstraße 3, 10711 Berlin**
Plug type	**CEE 7/4, for socket-outlets with earthing contact according to DIN 49440**
Ratings	**16 A / 250 V / 50 Hz**
Tested according to	**IEC 60884-1 / DIN VDE 0620-2-1, VDE test report 315069**
Basis	**EU Declaration of Conformity of seplugs GmbH, version 3.0**
Protection	**Pins protected against contact (IP2X), also when plugging in and out**
Additional protection	**The SEP 1.16 series additionally includes phase position monitoring on contact (polarity protection)**

1. **Normative classification according to DIN VDE V 0126-95:2025-12**
   "Plug-in solar devices for mains parallel operation – Part 95: Safety requirements and tests"
   For the AC-side plug-and-socket connection of plug-in solar devices, DIN VDE V 0126-95 provides two routes in § 4.2.3:
   - the energy plug-and-socket connector according to DIN VDE V 0628-1 (§ 6.2.3.2), and
   - the plug-and-socket connection according to DIN VDE 0620-2-1 with additional protection against contact (§ 6.2.3.3).

   Under the **requirements for components and system** in § 6.2.3.1 **AC-side plug-and-socket connections – General**, the connection "shall be designed according to one of the subclauses 6.2.3.2 to 6.2.3.4". Both routes are therefore of equal standing.

   Classification by seplugs as manufacturer:
   The seplugs SEP plug series SEP 1.16 and SEP 0.16 are plug-and-socket connections with additional protection against contact according to DIN VDE V 0126-95 § 6.2.3.3 and are therefore, under § 6.2.3.1, of equal standing to the energy plug-and-socket connector. With its additional polarity protection, the SEP 1.16 series meets the same protection objectives as an energy plug-and-socket connector (certification as an energy plug-and-socket connector according to DIN VDE V 0628- 1 is, by design of that standard, not provided for a plug according to DIN VDE 0620-2-1).

2. **Systems with more than 960 Wp module power**
   DIN VDE V 0126-95:2025-12 § 4.1 **Power and current limitation** permits a module power of up to 2,000 Wp if the plug-in solar device is fitted with a special energy plug, e.g. according to DIN VDE V 0628-1.
   The standard explicitly cites VDE V 0628-1 as an example and does not prescribe a specific design.

   Classification by seplugs as manufacturer:
   We take the position that the SEP 1.16, as a plug-and-socket connection according to § 6.2.3.3, meets the requirement of a "special energy plug" within the meaning of § 4.1. This classification is based on the structure of the standard (§ 4.1, § 4.2.3, § 6.2.3.1) and on the tested properties of the product series. The standard does not provide for a separate individual approval; it describes protection objectives, which our product meets, even without third-party testing according to § 6.2.3.3.

3. **What remains unchanged**
   - **Supply-in:** The supply-in power (AC) remains in all cases at a maximum of 800 VA as stated on the inverter's rating plate. The 2,000 Wp refer to the module power (DC).
   - **Circuit protection:** A plug does not replace overload protection of the circuit. Power limitation is the task of the inverter or device.
   - **Installation:** No multiple socket-outlets or unsuitable extension cords. If in doubt about the condition of the electrical installation, consult a qualified electrician. Register the system with the grid operator and in the national register where required.

Storage systems: Statements on the admissibility of a storage or hybrid system as a whole are made by its manufacturer. seplugs comments on the plug-and-socket connection.

With the seplugs SEP plugs, we provide users and distributors with a tested plug-and-socket connection that supports them in making their plug-in solar devices available on the market in line with the relevant standards and with the requirements of the German Product Safety Act (ProdSG) and Regulation (EU) 2023/988.

signed M. Gührs
Managing Director / CEO
Berlin, 11 November 2026