**Photovoltaic inverter, 1-phase, 3.0...4.0 kVA, 2 MPP trackers**

Transformerless single-phase inverter for photovoltaic systems with 2 MPP trackers (17A/17A max. MPPT current), can be used universally as a solar, hybrid or battery inverter, optional power extension with activation code, optional activation of the 2nd MPP tracker as a battery input for connection of a compatible HV storage system, prepared for additional battery charging via existing AC energy sources, backup power operation with manual changeover switch (KOSTER). MPP tracker as battery input for connecting a compatible HV storage system, prepared for additional battery charging via existing AC energy sources, backup power operation with manual changeover switch (KOSTAL BackUp Switch or BackUp Switch MP) or automatic changeover device possible, DC overvoltage protection module type 2 can be integrated as an option, with data logger, suitable for indoor and outdoor installation, max. input voltage 1000 V, mains connection 1000 V, mains connection 1000 V max. Input voltage 1000 V, mains connection 1-phase 230 V, power factor 0.8 overexcited to 0.8 underexcited, max. efficiency min. 97.7%, Euro efficiency min. 96.5 %, protection class (to IEC 62103) I, with automatic disconnection point to VDE 0126-1-1, protection rating to ICE 60529 IP 65, ambient temperature -20 to +60 °C, transformerless topology, DC connection 4...6 mm² with Sunclix connectors, AC connection 2.5...6 mm², interfaces 2x LAN, WiFi, WiFi bridge, RS 485 for communication with Smart Meter, USB, signal input for evaluating an external overvoltage protection, 4 potential-free relay outputs (24V, 100mA) for load control (SG-Ready compatible) and data interface for cascading inverters, display, LED message indicators, visualisation via integrated web server, display or smartphone application possible, with self-learning shadow management, with Solar Portal for monitoring the PV system incl. fault notification per fault. Fault notification by email in the event of a fault, smart home integration via Modbus / Sunspec (TCP), with connection for Energy Meter for dynamic active power control and 24-hour self-consumption measurement, with integrated input for direct connection of a ripple control receiver or an FNN control box, EEBus-compatible, "AutoUpdate" software update via the Internet, certification in accordance with VDE 0100-712 and VDE-AR-N 4105.

Basic power: 3.0 kW

Max. Output power (cos φ = 1): 4.0 kVA

Max. PV output: 6.0 kWp

Optional power extension level 1a: 3.6 kW

Optional power extension level 1b: 4.0 kW

MPP working voltage range: 75 - 900 V

Manufacturer/Type

'Kostal / PLENTICORE MP S G3  
or equivalent

Manufacturer/Type

'....................................................'  
to be entered by the bidder.