**Photovoltaic inverter, 3-phase, 15...20 kVA, 3-MPP tracker**

Transformerless three-phase inverter for photovoltaic systems with 3 MPP trackers (30A max. MPPT current each), can be used universally as a solar, hybrid or battery inverter, optional power extension with activation code, optional activation of the 3rd MPP tracker as a battery input for connecting a compatible HV storage system, prepared for additional battery charging via existing AC energy sources. MPP tracker as a 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 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, 3-phase 400 V/230 V mains connection, power factor 0.8 overexcited to 0.8 underexcited, efficiency max. 98 %, Euro efficiency 97 %, 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 6…10 mm², interfaces 2x LAN, WIFI, RS 485 for communication with Smart Meter, USB, signalling 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 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. error notification in the event of a fault. Solar Portal for monitoring the PV system including error 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, "AutoUpdate" software update via the Internet, certification in accordance with VDE 0100-712 and VDE-AR-N 4105.

Basic output: 15 kW

Max. Output apparent power (cos φ = 1): 20 kVA

Max. PV output: 30 kWp

Optional power extension stage 1: 15 kW

Optional power extension level 2: 20 kW

MPP operating voltage range: 75 - 900 V

Manufacturer/Type

'Kostal / PLENTICORE M G3   
or equivalent

Manufacturer/Type

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