



POWER ELECTRONICS SYSTEM

intended for use in renewable
power plants: hydroelectric,
wind and solar



- Single-phase systems^{*)}
- Nominal power: 2.2kW, 3.0kW and 5.5kW
- DC voltage range: 70V ÷ 450V
- Automatic synchronization for 230V/50Hz grid (110V/60Hz - option)
- THDi: <4.5%
- 2.2kW and 3.0kW systems with single string and one Maximum Power Point Tracking (MPPT) boost converter, 5.5kW system with two strings and two MPPT boost converters
- Dual DC input with two separate and independent MPPT boost converter modules within the 5.5kW inverter giving capability of utilizing two photovoltaic strings. This is especially useful with roof solar panels facing two directions (pitched roof with south and west side)
- Anti-islanding protection
- Advanced built-in self test algorithm (PE insulation, device temperature, RCD)
- Build-in communication module: RS-485 and Ethernet^{**)}
- Case for outdoor use: IP65
- Upgradeable to work in small hydro-power plants
- Dimensions (W x H x D): 338x433x183 mm
- Weight: 17 kg

^{*)} Three-phase systems 11kW and 18kW under development (DC voltage: 70V ÷ 900V)

^{**)} Bluetooth communication under development



TWERD Power Electronics

ul. Konwaliowa 30
87-100 Toruń, Poland

www.twerd.pl
e-mail: twerd@twerd.pl
tel.: +48 56 654 60 91
fax: +48 56 654 69 08



UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ
ROZWOJU REGIONALNEGO



Grants for innovation. The project is cofinanced from European Union within Regional Development Fund.