

# NetTracker® 90kW

**90kW PV MPPT Converter**  
**9x10kW with string MPPT**  
**SW controlled via Modbus**



## Description

The PV string converter is part of the Netpower DC system and can be equipped with up to 9 hot-swappable power modules.

The power modules are based on SiC electronics combined with a new interleaved converter design. The “NetTracker” optimization and tracking algorithm gives the highest possible energy efficiency at any load condition.

Output 350 or 700Vdc

## Features

- NetTracker® MPPT algorithm for maximum power output
- SW settable Droop control
- Thermal control and shutdown
- Hot-swappable
- 99% efficiency
- LEDs for status indication
- Remote monitoring via Modbus
- Black start capabilities
- Bus conversion 700 ->350 Vdc



| NetTracker®                             |  |
|---|--|
| <b>Input</b>                            |  |
| MPPT start Voltage                      | Output +10Vdc                              |
| Input maximum voltage                   | 1.150Vdc (sw protection at 1.050Vdc)       |
| Input current                           | 9x 25A max                                 |
| <b>Output</b>                           |  |
| Output power (continuous)               | 9x 8.200W(@350V) 10.000W(@700V)            |
| Output power peak (STC max)             | 9x 10.000W                                 |
| Output current                          | 9x 25A max                                 |
| Output voltage, nominal                 | 350 / 700Vdc (SW settable 200 - 850)       |
| "No Charge" voltage                     | 280 / 560Vdc (SW settable 200 - 850)       |
| Minimum load                            | 20W / module                               |
| <b>Other technical data</b>             |  |
| Efficiency                              | 99% peak                                   |
| Night consumption                       | <1 W                                       |
| MPPT                                    | 1 per string input                         |
| Fan cooled (front to back)              | 2x redundant fans                          |
| Thermal reduction                       | Yes  |
| Short circuit & over current protection | SW controlled current + In- & Output fuses |
| Visual fault indication                 | Dual LEDs                                  |
| Alarm output                            | Digital alarm to NetManager™<br>SW Modbus  |
| Audible noise                           | <30 dBA                                    |
| Safety                                  | EN/IEC 60950, class 1                      |
| EMC                                     | EN 61000-6-8                               |
| Operation temperature                   | -10°C => +55°C (Thermal reduction)         |
| <b>Mechanical data</b>                  |  |
| Weight, powershelf                      | 40 kg (9 modules installed)                |
| Width                                   | 19 Inch                                    |
| Height                                  | 4U   |
| Depth                                   | 400 mm                                     |
| Enclosure                               | IP 20                                      |

\*All data preliminary, subject to change

