

# PV aggregator

**Compact, 450 kW in one cabinet**  
**NetTracker® technology**  
**-Mega Watt installations-**

## Description

The PV aggregator is designed for very large PV installations, from a few hundred kilo Watts up to Mega Watts.

45 PV strings with up to 1000V per string can be aggregated in each cabinet.

The power modules are based on SiC electronics combined with a new interleaved converter design.

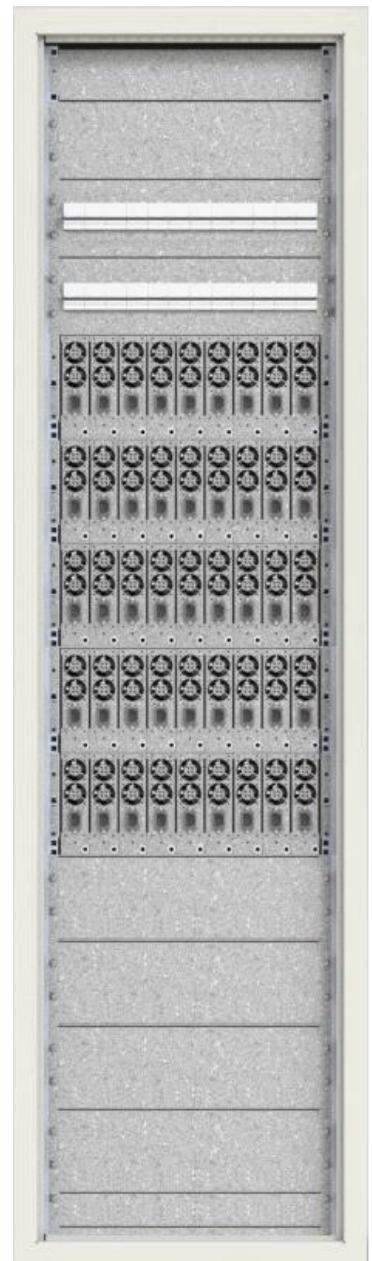
The "NetTracker" optimization and tracking algorithm gives the highest possible energy efficiency at any load condition.

**Output 350 or 700Vdc**

## Features

- Hot-swappable power modules
- NetTracker® PV MPPT
- Space saving front access only

**Daisy-Chain multiple cabinets for Mega-Watt Installations!**



## Configurations

### Typical system configuration:

(One cabinet)

System capacity:

- 450 kW (5 power shelves)

Input:

- 45 PV strings
- Max. input voltage 1000Vdc

Output:

- 300- 850 Vdc

Mechanical dimensions:

- Cabinet: 2150 x 600 x 600 mm (HxWxD)
- Weight: ~ 400 kg
- Cable entry: Top of Cabinet

### Options:

- OVP
- In- and output fuses



900 kW

PV aggregator	
<b>Input</b>	
MPPT start Voltage	Output +10Vdc
Input maximum voltage	1.150Vdc (sw protection at 1.050Vdc)
Input current	45x 25A max
<b>Output</b>	
Output power (continuous)	45x 8.200W(@350V) 10.000W(@700V)
Output power peak (STC max)	45x 10.000W
Output current	45x 25A max
Output voltage, nominal	350 / 700Vdc (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/module
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™ 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	~400 kg
Width	600 mm
Height	2150 mm
Depth	600 mm
Enclosure	IP 20

\*All data preliminary, subject to change

