



NetTracker™ 36kW DC Solar charge controller



Description

The solar charge converter subrack is part of the Netpower DC system and can be equipped with up to 9 hot-swappable n+1 redundant power modules.

The power modules are based on the latest Silicon Carbide (SiC) electronics combined with a new un-isolated buck converter design. An intelligent software controlled optimization and tracking algorithm combined with the low-loss SiC technology gives the highest possible energy efficiency from the solar panel installation.

At only 4U in a standard 19 inch rack, this compact converter subrack can deliver 36000W of high-quality 350/380V DC power.

Features

- NetTracker™ MPPT algorithm for maximum power output
- New un-isolated buck converter design
- Thermal control and shutdown
- Hot-swappable
- 99% efficiency
- Zero Night Consumption
- LED for status indication.
- Remote monitoring via NetManager™

	NT36000	
Input		
Input voltage range	355 – 600 Vdc	
Input current	9x12 A max	
Output		
Output power (continuous)	9x3100W	
Output power (STC equivalent)	9x4000W	
Output current	9x12 A max	
Output voltage, nominal	Version /1 350 Vdc /2 380 Vdc	
"No Charge" voltage	280/310 Vdc (during battery test)	
Minimum load	7W / module	
Ripple, 2xf	0.045%	
Short circuit protection	Yes	
Other technical data		
Efficiency at 20 – 80 % load	99%	
Night consumption	0.0 W	
Operation temperature	-10°C => +55°C	
Fan cooled (front to back)	2x redundant fans	
Thermal reduction	Yes	
Fault indication	LED "green" to "no"	
Alarm output	Digital alarm to NetManager™	
Audible noise	<30 dBA	
Safety	EN/IEC 60950, class 1	
EMC	EN 61000-3-2 /-3-4 class B	
Mechanical data		
Weight, subrack	22 kg (9 modules installed)	
Width	19 Inch	
Height	4U	
Depth	380mm	
Enclosure	IP 20	

*All data preliminary, subject to change.