



NTN-5K Series:

5KW Off-Grid Industrial Grade 2-in-1 Charging Inverter

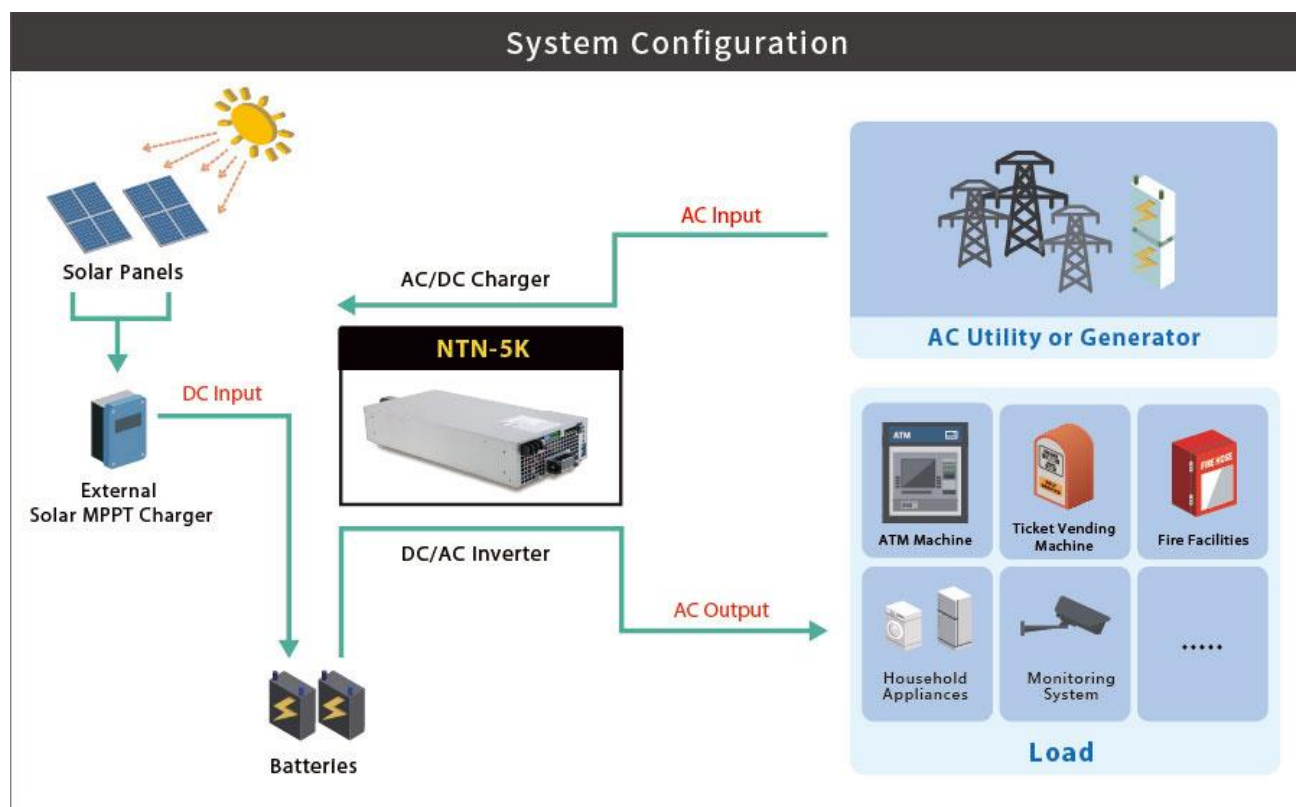
Product Strategy Center/Frank Chen

After the successful launch of the NTS/NTU series 250~3200W off-grid DC-AC unidirectional inverters, which received rave reviews with thousands sold annually, in order to meet higher wattage demands, expansion was made to cater to broader applications with the introduction of the single unit 5KW off-grid true sine wave inverter with a built-in charging function --- NTN-5K Series.

This series is an all-in-one unit that integrates AC-DC charging, DC-AC inversion, and AC bypass. It also supports external solar panels and MPPT chargers. The main features include five key highlights:

1. Built-in high-power 4520W AC-DC charger with fast charging capability
2. Adopts a modular design with 5KW single machine module, allowing flexible parallel connection of AC outputs up to 30KW (1+5 units), with highly flexible wattage expansion
3. The chassis is designed in a 2U high cabinet style for easy installation and quick assembly when mounted in a standard 19" rack
4. Uses 3 NTN-5K single-phase AC outputs, which can be combined for 3Ø4W AC output use
5. Provides a comprehensive monitoring platform [CMU2E](#), [CM2E-R](#)

In addition, MEAN WELL can provide a one-stop service for peripheral components such as batteries, 19-inch rack cabinets, fans, etc., in addition to selling the NTN-5K inverter. This allows end-system designers to quickly build a small-scale energy storage uninterrupted power backup system, mobile charging, mobile power station, and more.

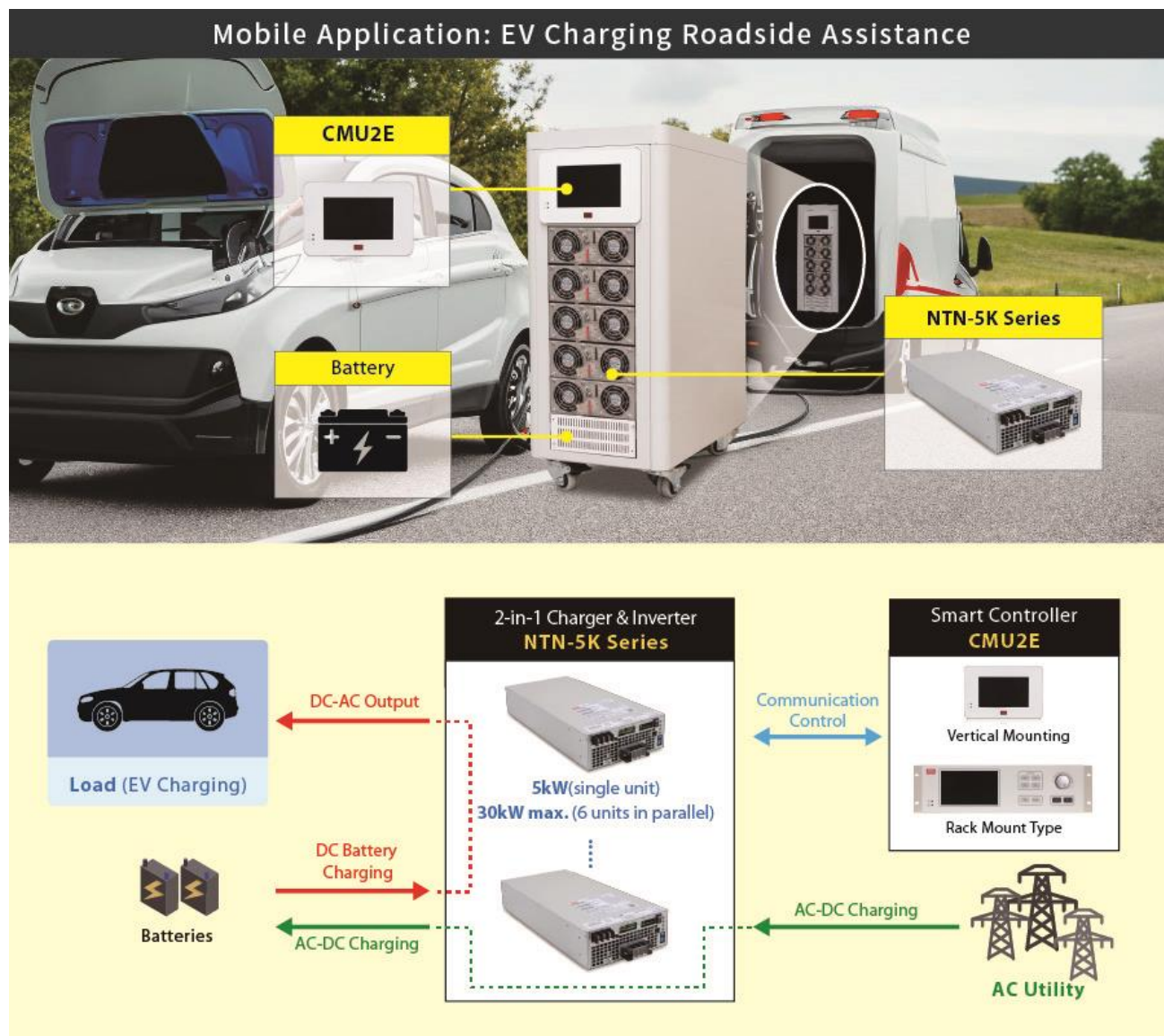


Other features include: instantaneous peak power up to 10KW, built-in communication, adjustable output voltage / frequency / energy-saving mode, complete protections, PCB coating for dust/moisture/dirt resistance, remote ON/OFF control, 5 years long-term warranty, and international certifications. Suitable for indoor emergency power during power outages or outdoor off-grid situations, such as: households, offices, warehouses, vehicles, boats, remote mountain areas, construction sites, etc.; capable of powering lighting, computers, air conditioners, refrigerators, hairdryers, emergency devices, power tools, etc.

Features

- Multi-functional All-in-One device (AC-DC Charger + DC-AC Inverter for Load + AC Bypass for Load)
- Built-in AC-DC high power charger up to 4520W
- DC-AC pure sine wave output (THD<3%)
- Instantaneous peak power of up to 10KW for AC output
- Up to 6 units of AC output can be paralleled, expanding wattage up to 30KW (5+1 units)
- Utilizes 3 NTN-5K unidirectional AC outputs, configurable for 3Ø4W usage
- -30~+70°C ultra-wide temperature range, suitable for global deployment or installation in enclosed environments
- Built-in remote ON/OFF control
- Protections:
 - DC input: Reverse Polarity, Low Voltage Warning and Shutdown, Over Voltage, Battery Over Discharge
 - AC output: Short Circuit, Overload, Over Temperature
- Built-in Modbus or CAN bus communication monitoring
- Optional intelligent controllers available for purchase:
 - CMU2E (Stand-Alone Vertical Mounting / Rail Mounting) or CMU2E-R (Rack System Installation)
- Dimensions (length x width x height): 460 x 211 x 83.5mm
- PCB coating for basic moisture / dust / dirt protection
- Certifications: CB / TUV / RCM / EAC / CE / UKCA / FCC
- Compatible with [lead acid](#) or lithium batteries
- 5 years warranty

Applications



Order Information

NTN - 5K - 1 24

DC input voltage (24: 24Vdc, 48: 48Vdc, 380: 380Vdc)

AC output voltage (1:100/110/115/120Vac, 2:200/220/230/240Vac)

Rated wattage

Series name