



Fangpusun Xtender

XTM 1500-12, XTM 2000-12, XTM 2400-24, XTM 3500-24, XTM 2600-48, XTM4000-48,

The basic functions of the combined inverters Fangpusun Xtender are the inverter, the battery charger, the switching function and the support of external sources of alternating current. These functions can be combined and controlled fully automatically. The inverters offer outstanding user-friendliness and very good exploitation of the energy available.

All the settings of the Fangpusun Xtender can be remote controlled. When a software with new functions is available, it can be loaded into the system, so the Fangpusun Xtender always stays up to date. Several Fangpusun Xtender can be connected in parallel or to form a three-phase system. That means that up to nine Fangpusun Xtender can work together.

Multifunction contacts

These potential-free contacts can be programmed for many different applications. They can react to any event outside or inside of the inverter (grid availability, battery voltage, fault message ...) They can also be programmed on a timer or can be switched on during particular times (at night, at the weekend ...). In this way, they can serve to start up a generator, to switch off less important loads, to signal a fault, to charge batteries depending on the situation, etc.

Smart-boost function

With the smart-boost function, the output of another source of alternating current, such as a power generator or a charger connection, can be increased; even when special loads are being used (inductive, asymmetric, with high switch-on current). It is also possible to combine the Fangpusun Xtender with almost all inverters which are already present in order to increase the available output.

Product features

- True sine wave voltage
- Excellent overload capabilities
- Optimal battery protection
- Adjustable integrated battery charger
- Multistage programmable battery charger with PFC
- Automatic load detection
- Standby load detection adjustable over a wide range, starting from a low value
- Parallel connectable
- Best reliability
- Can be used as a back-up system or uninterruptible power supply (UPS)
- Multifunction contact
- Adjustable power sharing
- Reliable and noiseless with any kind of load
- Support of sources of alternating current (Smart Boost)
- Automatic support for peak loads (Power Shaving)
- Ultra-fast transfer relay
- High efficiency
- Control by digital signal processor (DSP)

Options

- Type with 115 V / 60 Hz (except Fangpusun Xtender XTH 8000-48)
- Model with protective lacquered mainboard

Certificates

- Compliant with European Standards (CE)
- RoHS compliant
- Made in China

Accessories

- Remote control and display Fangpusun RCC-02
- Remote control and display Fangpusun RCC-03
- Fangpusun X-Connect system
- Battery temperature sensor Fangpusun BTS-01
- Integrated cooling unit ECF-01
- Communications cable
- Fangpusun BSP-500/1200
- Version 2018-08-13 12:56 Steca Elektronik G

Electronic protection functions

- Deep discharge protection
- Battery overvoltage shutdown
- Short circuit protection
- Overtemperature and overload protection
- Reverse polarity protection by internal fuse (except Fangpusun Xtender XTH 3000)
- Acoustic alarm at deep discharge or overheating

Displays

- 5 LEDs show operating states

Operation

- Main switch
- Adjustable load detection

TECHNICAL DATA

Model	XTM 1500-12	XTM 2000-12	XTM 2400- 24	XTM 3500-24	XTM 2600-48	XTM 4000-48
Characterisation of the operating performance						
Nominal battery voltage	12V	12V	24V	24V	48V	48V
Input voltage range	9.5-17VDC	9.5-17VDC	19-34VDC	19-34VDC	38-68VDC	38-68VDC
Continuous power	1500VA	2000VA	2000VA	3000VA	2000VA	3500VA
Power 30 min.	1500VA	2000VA	2400VA	3500VA	2600VA	4000VA
Power 5 sec.	3400VA	4800VA	6000VA	9000VA	6500VA	10500VA
Max. efficiency	93%	93%	94%	94%	96%	96%
Own consumption stand by	1.4W	1.4W	1.6W	1.6W	2.0W	2.1W
Own consumption stand by	8.0W	10W	9W	12W	10W	14W
Acoustic level without ventilation	40 dB					
Acoustic level with ventilation	45 dB					
Maximum load	Up to short-circuit					
Maximum asymmetric load	Up to Pcont.					
Load detection (stand-by)	2 to 25 W					
Cos φ	0.1-1					
Output voltage	Pure sine wave 230Vac (±2%) / 120Vac (1)					
Output frequency	45Hz - 60Hz (1) ± 0.05% (crystal controlled)					
Harmonic distortion	<2%					
Overload and short-circuit protection	Automatic disconnection with 3 time restart attempt					
Overheat protection	Warning before shut-off - with automatic restart					
Battery charger						
Charge Characteristic	6 steps : Bulk-Absorption-Floating-Equalization-reduced floating-periodic absorption Number of steps, thresholds, end current and times completely adjustable with the RCC-02/03					
Temperature compensation	With BTS-01 or BSP 500/1200					
Power Factor Correction (PFC) according	EN 61000-3-2					
Maximum charging current	70A	100A	55A	90A	30A	50A
General data						
Input voltage range	150 to 265Vac / 50 to 140Vac (1)					
Input frequency	45 to 65Hz					
Input current max. (transfer relay) / Output current max.	50Aac/56Aac					
Transfer time	<15ms					
Multifunction contacts	2 independent contacts (potential free 3 points, 16Aac/5Adc)					
Dimension hxxwxxl [mm]	133x322x466					
Protection index	IP20					
Operating temperature range	-20 to 55°C					
Relative humidity in operation	95% without condensation					
Ventilation	Forced from 55°C					
Warranty	2 years					
Weight	15Kg	18.5Kg	16.2Kg	21.2Kg	16.2Kg	22.9Kg