

Sine Wave Inverter (TAT & TAR) 1000VA~4000VA

General Features:

- ◆ Wide DC input range
- ◆ Output short circuit protection
- ◆ DC input polarity protection
- ◆ Sine Wave output
- ◆ Designed for any kind of load
- ◆ Automatic restart of load after overload shutdown
- ◆ Audible alarm
- ◆ Thermal control cooling fan
- ◆ Generator compatible(models with AC input)
- ◆ Smart Bypass function (models with AC input)
- ◆ Full function of LED display (LCD display optional)

TAR series "Rack Mount".



TAT series "Tower" (LCD & LED)



AC Output

	115V Models	230V Models
Power Levels crated at nominal inputs	1000VA/ 700W ; 1700VA/ 1200W ; 2500VA/ 1800W ; 3500VA/ 2400W ; 4000VA/ 3200W	
Output Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Voltage Waveform	Sine wave	
Crest Factor	5 : 1	
Output Frequency	50/60Hz(selectable by using the remote set-up software)	
Regulation	±3% (output voltage adjustable by using the remote set-up software)	
Transfer time (Models with AC input)	2ms typical (Bypass to inverter mode) Zero (Inverter mode to bypass mode)	
Over current protection	Over load alarm level 100% ~ 120% Over load shutdown level 120% ~ 190% (Adjustable by using the remote set-up software)	

AC Input (optional input)

	115V Models	230V Models
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Nominal Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Input Frequency	47Hz ~ 65Hz, 50/60Hz auto-sensing	
Efficiency	97% (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	
Over current protection	By re-settable over current protector	
Voltage Range	-30% ~ +33% for selected nominal voltage.	
AVR Range (2 Bucks, 2 Boosts)	Enhanced Buck: +24% of selected nominal voltage Buck mode: +8% of selected nominal voltage Boost mode: -8% of selected nominal voltage Enhanced Boost: -20% of selected nominal voltage	
Surge Protection (Only available when AC Input included)	1000VA : 216 Joules 1700VA ~ 4000VA : 324 Joules	1000VA : 220 Joules 1700VA / 2500VA : 440 Joules 3500VA / 4000VA : 660 Joules

☐ DC Input

Voltage	24Vdc(20Vdc ~ 32Vdc) : 1000VA / 1700VA 36Vdc(30Vdc ~ 48Vdc) : 1000VA / 1700VA / 2500VA 48Vdc(40Vdc ~ 64Vdc):1000VA / 1700VA / 2500VA / 3500VA / 4000VA 72Vdc(60Vdc ~ 96Vdc) : 1700VA / 2500VA / 3500VA/4000VA 96Vdc(80Vdc ~128Vdc) : 1700VA / 2500VA / 3500VA/400VA 108Vdc(90Vdc ~ 144Vdc) : 1700VA / 2500VA / 3500VA / 4000VA 220Vdc(175Vdc ~ 280Vdc) 1700VA / 2500VA/ 3500VA
Typical run time	Load <100%, No Limit 100%<Load<120%, 30 minutes typical 120%<Load<190%, 1 minute maximum 190%<Load, 0.25 second typical
Protection	Input polarity protection (by DC relay) DC fuse protection (60A or 120A, depends on DC voltage and VA rating) Over current protection (2KHz Switching, real time protection) Under voltage protection Over voltage protection (CPU control)
Monitoring	Smart monitoring & warning for failed battery

☐ Communications & Management

Interface port	UPSilon2000 compatible; optional for RS232 and/or USB
Control panel	LCD or LED Selectable (Rack units with LCD only)
Audible alarm	Alarm on battery : Low battery & Battery over voltage Alarm on abnormal operation : Over load, Short-circuit, & Over heat

Green mode function (for models with AC input)	1% to 14% of full load (adjustable by using the remote set-up software) The default setting is OFF.
Cooling fan control	Auto on / off, controlled by temperature & operation mode

Environmental and Safety

Operating Temperature	Up to 1500 meters : 0°C to 40°C (32°F to 104°F)
Transit/storage Temperature	-15°C to 55°C (5°F to 131°F)
Relative Humidity	5 - 95% non condensing
Operating Altitude	0 ~ 3000 meters
Audible noise at 1M from surface of unit	≤50 dBA
Safety Markings	CE
EMC	Class A, EN50091-2, FCC part15, IEC1000-2-2
Isolation	3KVac for 1 minute between DC input and AC output
Quality control system	ISO 9001

Physical

Dimensions:	Tower (TAT)	Rack (TAR)
Unit / Shipping D×H×W (cm)	1000VA/ 1700VA/ 2500VA : 45 x 20 x 18 cm / 54 x 33 x 30 cm 3500VA/ 4000VA : 51 x 20 x 18 / 61 x 33 x 30 cm	1000VA/ 1700VA/ 2500VA/ 3500VA : 3u x 45 cm / 59 x 33 x 59 cm 4000VA : 4u x 45 cm / 59 x 38 x 59 cm
Weight: Net / Gross (kg)	1000VA : 16 / 17 (kg) 1700VA : 19 / 20 (kg) 2500VA : 23 / 24 (kg) 3500VA : 31 / 33 (kg) 4000VA : 43 / 45 (kg)	1000VA : 20 / 24 (kg) 1700VA : 26 / 30 (kg) 2500VA / 3500VA : 34 / 38 (kg) 4000VA : 48 / 52 (kg)
Packing	Export carton for each unit, 16 - 30 units per pallet	