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|  | PRODUCT SPECIFICATIONS | REF. No. : EN-VN-CL010825-PT 3000 614-40013-03 |
| | PRODUCT SERIES : Santak PT3000 MODEL : PT10K TECHNOLOGY : Online double conversion | Page No.: 1 OF 3 |

INPUT

| | |
|----------------------------|--|
| Nominal Voltage | : 220VAC |
| Input type | : PFC Type |
| Phase | : Single phase with ground (2W + G) |
| Power Factor | : ≥ 0.99 |
| Voltage Range | : 110VAC ~ 275VAC (100% load: 176VAC ~ 275VAC) |
| Frequency Range | : 40 ~ 70Hz |
| THDi | : <3% |
| Protection | : 100Amp Breaker |
| Input voltage surge rating | : L - N: 405J ; L/N - GND: 445J |
| Connection | : Terminal Block |
| Earth leaking current | : < 7mA |
| Generator compatible | : Yes |

OUTPUT

| | |
|----------------------------------|---|
| Nominal Power Capacity | : 10kVA / 10kW |
| Inverter type | : IGBT type |
| Power Factor | : 1 |
| Load Power Factor rating | : 0.3 leading to 0.3 lagging |
| Nominal Voltage | : 220/230/240VAC configurable |
| Regulation | : $\pm 1\%$ |
| Waveform | : Sine wave |
| Frequency | : 50Hz/60Hz configurable Line mode: 50Hz \pm 5 Hz / 60Hz \pm 6 Hz Battery mode: 50/60Hz \pm 0.1 Hz |
| Crest Ratio | : 3:1 |
| THDV | : < 1% |
| Efficiency | : Up to 95% in double-conversion mode Up to 98% in ECO mode |
| Overload capacity | : 105%~125%, 10mins then transfer to bypass and alarm 125%~150%, 30s then transfer to bypass and alarm 150%, 0.5s then transfer to bypass and alarm |
| Bypass Output without turning on | : Yes |
| Maintenance Bypass Switch | : PDU Option |
| Connection | : Terminal Block, 2*IEC C13 |

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BYPASS

Output before UPS power-on : YES
 Voltage Range : 110 ~ 275VAC
 Protection : 100Amp Breaker
 Auto transfer to bypass mode When UPS is overloaded, failed, low battery ...

BATTERY AND CHARGER

EBM Option:

- Type : VRLA, Maintenance Free
- Rating : 12V9Ah
- Quantity : Default 16pcs/EBM
- Recharging time : 3 hours to 90% rated capability (Standard model)
- Temperature compensation : 20mV/pcs/°C
- Reference Battery configuration :

| PTB9161 EBM | Backup time at 100% load | Backup time at 50% load |
|-------------|--------------------------|-------------------------|
| EBM * 1 | 2.4 mins | 6 mins |
| EBM * 2 | 6 mins | 17 mins |
| EBM * 3 | 11 mins | 30 mins |
| EBM * 4 | 17 mins | 46 mins |

External Battery Cabinet Option:


- Quantity : Configurable from 16 pcs to 20 pcs
 - Nominal Voltage : 192VDC ~ 240VDC
 - Reference Battery configuration : Backup time varies depending on battery capacity and quantity
- Protection : Fast-acting Fuse
 Voltage Initial Charging : 2A default (0 ~ 4A adjustable)

TRANSFER TIME

Utility Power Failure : 0 ms
 Battery to Utility Power Mode : 0 ms
 Bypass to Inverter and vice versa : 0 ms

PARALLEL FUNCTION

Parallel card : Option
 Number of UPS in Parallel : Up to 3 units

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INTERFACE

| | |
|--|--|
| Operation mode | : Standby / Online / Battery / Bypass / ECO / Converter mode |
| Control Panel | : Power On/Off, Up, Down, Enter, ESC |
| Interface | : Dot Matrix LCD, auto rotate, setting parameters |
| UPS Information | : Voltage / Current / Frequency / Temperature / Operation mode, Battery capacity |
| Diagnostics | : Full system self test on power up, battery test |
| Event log recording | : Yes |
| Auto Restart Function | : Auto restart while AC source restored after discharge shutdown |
| Power-on Function | : AC power on, On-battery power on |
| Audible Alarm | |
| - Battery mode | : Beep once every 4 seconds |
| - Battery low | : Beep once every second |
| - Overload | : Beep twice every seconds |
| - Fault, over temperature or short circuit | : Beeps continuously |
| - Bypass mode or Site fault | : Beep once every 2 minutes |
| Communications | |
| - USB Port, RS232, Dry contact | : Available (Software: Winpower G2) |
| - Intelligent Slot | : Available (Options: NMC Card, Modbus Card, Relay Card) |
| - EPO | : Available |
| Cooling | : Force air cooling Fan speed depends on the operation mode and load level |

ENVIRONMENTAL

| | |
|-----------------------|--|
| Acoustic noise | : < 60dB (level 4 ultra high speed), < 55dB (level 3 high speed) |
| Operating Temperature | : 0 ~ 50°C (>40°C derating) |
| Operating Humidity | : 0 ~ 95%, non-condensing |
| Installation type | : Rack and Tower |
| Standard | : IP20, IEC 62040, ISO9001 |

MECHANICAL FEATURES

| | |
|----------------------------|-----------------------|
| UPS: | |
| - Dimensions W x D x H(mm) | : 438 x 573 x 86.3 mm |
| - Weight (kg) | : 15.9 kg |
| EBM: | |
| - Dimensions W x D x H(mm) | : 438 x 589 x 129 mm |
| - Weight (kg) | : 51.8 kg |

Specifications are subject to change without notice.