

APS- T Industrial 3P

10KVA to 400KVA Single Unit
Max 400KVA × 8 parallel connection



ABOUT PRODUCT

The APS- T Industrial 3P UPS is a dual conversion True Online design with digital technology topology. The UPS offers exceptional reliability, high fault tolerances, and high surge overload capability. This product series can be paralleled for hot standby backup (N+1) and also can be used as a standalone solution for applications such as banking, securities as well as other institutions like data centres, communications, electrical utility and industrial automation to mention but a few. A UPS which is fully compatible with every load or environment. Capacities in a single frame from 10kVA to 400kVA; offers a flexible power proposition to any application.

PRODUCT PERFORMANCE

The Multi-UPS parallel functionality allows users to parallel up to 8 UPS's at once for scalability and (N+1) via DSP control Full digital control technology makes the whole system more precise, fast reacting, reliable and stable. Precise intelligent monitor functions can provide RS232, dry contact and parallel interface. Using intelligent battery charging and discharging mode as well as management mode, one can effectively improve the battery life. The UPS system is put through strict tests of short circuit and 2KV high voltage isolation tests. An optional twelve pulse solution or plus active power filter is available to effectively correct the input power factor.

MAIN FEATURES

- The Inverter adopts DSP MCU & DDC digital vector control technology to command each UPS function
- Advanced IGBT & PWM technology used to decrease system noise & energy losses
- Obtains high-quality output voltage with optimal benefit under various loads
- UPS provides low distortion noise and pure sine wave output
- Output isolation transformer to ensure load and utility electricity are isolated completely
- No DC to the load due to UPS isolation characteristics mitigating DC ripple and thus elevating load reliability
- Enhanced load capability of the machine to various capacitive and inductive type loads
- Automatic frequency synchronous function avoids skipping the frequency which can influence devices negatively
- Intelligent speed regulating fans are deployed, using noise control and energy saving methodology
- Using the large sized power IGBT's creates an inverter with the strong ability to handle overloads and resistive load impacts, and enhances the adaptation to the electrical environment
- AC input low and over voltage protection
- Output overload and short circuit protection
- Low voltage battery protection
- Over temperature protection inside the UPS
- Interactive LCD interface makes management and interfacing the UPS more convenient

CE FC ISO9001: 2008
ISO14001: 2004



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TECHNICAL SPECIFICATIONS

1. Rectifier

a) Rectifier Input

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Capacity (KW)	8	16	24	32	48	64	80	96	144	180	225	270	360
Single phase max. current(A)	19	38	57	76	114	152	190	228	304	379	475	570	760
Work mode and principle	Supply power online, static bypass switch ('0'time transfer), double conversion technology, output isolated completely												
Power factor	0.8/0.9(12 pulse)/ 0.95 (active filter)												
Phase	3 phase + N												
Nominal voltage	380VAC±25%												
Nominal frequency	50/60Hz±10%												
Input current harmonic	< 5%												
Soft start	0~100% 5sec												

b) Rectifier Output

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Max Output Voltage				432						446		459	
Microcomputer setting charge current	6 ~ 30A(adjustable)												

2. Battery

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Max. discharge current (A)	28	56	85	113	169	225	282	338	461	576	700	840	1120
Number of battery (single group)	12 V 32 pcs or 2 V 192 pcs						12 V 33pcs or 2 V 198pcs			12 V 34pcs or 2 V 204pcs			
Nominal battery voltage	384 VDC						396VDC			408VDC			
Float charge voltage	432 VDC						446 VDC			459 VDC			
Charge current	6A ~ 30A (adjustable)												

3. Inverter

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Rated capacity (KW)	8	16	24	32	48	64	80	96	144	180	225	270	360
Phase	Single phase/ three phase + N + G						Phase three phase + N + G						
Nominal voltage	220/380 VAC ± 1%						380 VAC ± 1%						
Nominal frequency	50/60Hz ± 0.5% (battery mode)												
Output power factor	0.8/0.9												
Frequency stability: out-sync	< ± 0.5%												
Frequency stability: synchronize	< ± 2%												
Peak factor	3:01												
Output wave Sine wave	Sine Wave												
Total harmonic distortion	Linear load < 3%; Non-linear load < 5%												
Dynamic load voltage transient	< ± 4%												
Instant recover time	< 10ms												
Balanced load voltage	< ± 1%; < ± 5% (unbalanced load voltage)												
Overload capacity	125%: 30min, 150%: 1min, > 150%: 300ms												
Inverter efficiency, load 100%	> 93						> 96						



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TECHNICAL SPECIFICATIONS

4. Bypass

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Phase	Single phase/ three phase + N + G						Three phase + N + G						
Nominal voltage	380 VAC ± 15%												
Nominal frequency	50/60Hz ± 10%												
Inverter/Bypass (transfer time)	0ms												

5. System

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Communication interface	Rs232, Rs485, Dry contact, Intelligent Slot												
Work temperature	0~40°C												
Relative humidity	0% ~ 90% (non-condensing)												
Operation altitude (max)	< 1000m (1% power lost as increase 100m, 4000m max.)												
Cool mode	Forced ventilation												
Noise	48 ~ 65 dB								53 ~ 68 dB				
MTBF	300000 hours												
Protection grade	IP20												
Cabinet color	White or Black												
Input cable	Button/Rear												
Easy-maintenance	Front/ Up/ Side												
Dimension W × D × H (mm)	420 × 800 × 900				560 × 700 × 1140		660 × 800 × 1550		1200 × 860 × 1680		1800 × 1200 × 1900		
Weight (KG)	120	140	175	210	350	400	550	650	1080	1200	1500 ~ 2500		
Input component	Connection terminal												
Output component	Connection terminal												



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