

توسعه انرژی
سنانگار



The New Generation of Three Phase UPS

Transformer Based and Transformer Less
10KVA- 600 KVA





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- 5th generation IGBT technology to adapt 380/400/415V, 50/60Hz Mains Grid Supply Systems
- Output Power Factor 1 to carry 12.5% load capacities than traditional UPS
- Wide Input Voltage Range 380Vac (-45% to +25%) with 50/60Hz $\pm 5\%$ Freq. Range; High adaptive capacity and generator Capability
- Overall Efficiency upto 95%. Can reach to 98% on ECO Mode
- Powerful overload ability with output short circuit protection technology: 110%-120% overloads for 10 minutes. 125%-150% for 1 minute
- Flexible Battery Configuration. It can be set on the front panel with 28-32 Units of Batteries Battery Charging Compensation Feature
- Intelligent Fault Diagnosis system with large storage memory of fault histories
- Friendly and Intuitive User Interface. Large Color Touch LCD Screen with multi-functional buttons
- DSP technology to control UPS power function processes (including Parallel function) in order to increase system reliability
- Flexible Single or Dual Utility Power Input to comprehensively protect load devices
- Mis-Phase Connection Diagnosis Evaluation and Alarm
- 100% 3 Phase Unbalanced Allowed
- Front Maintenance Design. MTBF can be up to 300K Hours



Capacity	10 KVA	15 KVA	20 KVA	30 KVA	40 KVA	60 KVA	80 KVA	100 KVA	120 KVA	160 KVA	200 KVA				
General Specification															
UPS Structure	Online Double Conversion														
Appearance	Transformer Based & Transformer Less														
Overall Efficiency (AC-AC)	95%														
Noise (In 2 Meters)	< 50-60dB														
International Standard	EN 50091-1/2; EN62040-1; EN62040-2														
Parallel Redundancy	Available upto 8 units														
Protection	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low														
Generator Compatibility	Available														
Cooling System	Intelligent Speed Control Cooling Fan														
Rectifier Specification															
Input Voltage	380Vac+N+W (3 phase + PE)														
Input Voltage Range	285-475Vac														
Input Frequency Range	45-65Hz														
Input PF	0.95														
THDI	<3% (with optional accessories)														
Dual Input Availability	Available(Optional accessories)														
Soft-Start	> 20 Seconds														
Output Specification															
Output Voltage	Line Voltage: 380× (1±1%) AC or Phase Voltage: 220× (1±1%) AC														
Output PF	1														
Output Voltage Regulation	380Vac±1%(Static Load) ;380Vac±2%(50-0% Sudden Change) ;380Vac±3%(100-0% Sudden Change)														
THD	< 1% (Linear Full Load) , < 3% (Non-Linear Full Load)														
Output Volt. Unbalanced	≤ 1%(Balanced Load); ≤2%(50% Balanced Load)														
Input/Output Phase Shift	≤ 1°(Balanced Load); ≤2°(50% Balanced Load)														
Frequency Tracking Range	45-65Hz														
Output Waveform	Pure Sine Wave														
Overload	>125%: More than 10 mins ; > 150%: More than 60s transfer to bypass														
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping														
Bypass Specification															
Static Bypass Transfer Time	0ms														
Bypass --> INV Transfer Time	2ms														
Frequency Tracking Speed	0.5-2hz/s														
Manual Maintenance Bypass	Available														
Battery Specification															
Charging Methods	DSP Controlled Charger: Equalized/Pulse Charge, Float Charge, Intelligent Battery Management														
Battery Type	Sealed Lead Acid Maintenance Free														
Rated Volts/Units	12V/384Vdc, Std. for 32 Units, adjustable from 28-32 units														
Float Charge Voltage	438Vdc														
Charging Current	Can be set from the front Screen														
Abnormal Protections	BAT over-charged, Emergency charger shutdown protection or UPS shutdown protection														
Communication Specification															
Communication Port	RS232/SNMP/485/Dry Contact (Optional Accessory)														
Remote Software	Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control														
Physical Parameters															
Size mm(W×H×D)	475×990×700			550×1100×800			605×1350×800			800×1600×800			1100×1850×850		
Net Weight Kg	210	223	230	280	330	450	550	630	750	810	855				

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