



TECHNICAL DATA SHEET

July,2015

| Brief Technical Data | |
|----------------------|----------------------------|
| Model Code | CD-CDT |
| Category | Dual Conversion Online UPS |
| Rectification Type | IGBT Transformer |
| Interface | LCD/SNMP/RS485 |
| Transformation | pure sine wave |
| Input | 3P±25% |
| Output | 1P±1% |
| Power factor | ≥0.95 |
| THD | ≤3% |



CD-CDT series

BRIEF INTRODUCTION

CHADI CDT series are 3 phases in single phase out UPS. Their capacity ranged from 7.5KVA to 30KVA. These series have applied full digital control technology based on DSP (digitalized signal processor). IGBT transformation endures high power current and high voltage with an extremely low consumption. The machine can run self-diagnose, and with standard RS232 for SNMP or RS485 cards, they are conveniently managed by central monitoring and remote monitoring. Redundancy Parallel Array technology is available with these series. RPA function can operate on up 32 units.

MAIN FEATURES & FUNCTIONS

- Applying full digital control technology based on DSP
- The shift time between Inversion and bypass is less than 1 millisecond.
- AC start (cold start), convenient to operate
- Auto re-start function
- Complete protection and alarm functions, MCU is monitoring all circuits and detecting bugs during the long run
- Extremely wide input voltage range
- Self-diagnose function
- Isolated output transformer isolated the electricity shock from various loads
- Most advanced RPA functions allow up to 32 units of machines to be working in the parallel array

| MODEL | CDT7.5KL | CDT10KL | CDT-15KL | CDT20KL | CDT-30KL | CDT-40KL | CDT-50KL |
|--------------------------------|--|--------------|----------|---------|--------------|----------|----------|
| Rated Power | 6KW | 8KW | 12KW | 16KW | 24KW | 32KW | 40KW |
| INPUT | | | | | | | |
| Rated Voltage | 3 phases 5 wires 380V±25%(285V-475V) | | | | | | |
| Frequency | 50 Hz/60Hz ±5%(optional ±10%) | | | | | | |
| Power Factor | 11KVA | 15KVA | 22.5KVA | 30KVA | 45KVA | 60KVA | 75KVA |
| OUTPUT | | | | | | | |
| Rated Voltage | single phases 220V±1% | | | | | | |
| Frequency | 50/60Hz±0.5% (inverted tense) | | | | | | |
| Phase Precision | ±0.5% | | | | | | |
| Degree of 3P Imbalance | Pure since wave, linear loads ≤3%; non-linear loads≤5% (full loading) | | | | | | |
| Distortion Factor | Over load 120% can last 10 minutes, over load 150% can last 20 seconds | | | | | | |
| Overload Capacity | <±5% | | | | | | |
| Wave Crest Coefficient | 5:1(full loading) | | | | | | |
| BATTERY(EXTERNAL EXTRA) | | | | | | | |
| Rated Voltage | 384VDC,192VDC | | | | | | |
| Battery Nos. | 12Vdcx32 nos. | | | | | | |
| Battery Voltage | 12 Vdc | | | | | | |
| Back-up Time | Extra battery (standby time is determined by battery capacity) | | | | | | |
| System | | | | | | | |
| Transfer Time | AC←→battery 0 ms; Invert←→bypass < 4 ms | | | | | | |
| Ingress Protection | IP20 | | | | | | |
| Conversion Efficiency | ≥85%(full loading) | | | | | | |
| Noise | 53db(1 meter) | 55db(1meter) | | | 58db(1meter) | | |
| ENVIRONMENT | | | | | | | |
| Temperature | 0°C~45°C | | | | | | |
| Humidity | 0~93% RH,non-condensing | | | | | | |
| Altitude | <1500m | | | | | | |