

TECHNICAL DATA SHEET

July, 2015

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



CD-CDP series

BRIEF INTRODUCTION

CHADI CDP series are 1 phase in 1 phase out UPS. Their capacity range 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. The latest 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	CDP-2KL	CDP-3KL	CDP-5KL	CDP-6KL	CDP-7.5KL	CDP-10KL	CDP-15KL	CDP-20KL	CDP-30KL	CDP-40KL
Rated Power	1.6KW	2.4KKW	4KW	4.8KW	6KW	8KW	12KW	16KW	24KW	32KW
INPUT										
Rated Voltage	single phase 220V±25% or 110V±25%									
Frequency	50 Hz/60Hz ±5%(optional ±10%)									
Power Factor	3KVA	4.5KVA	7.5KVA	9KVA	11.3KVA	15KVA	22.5KVA	30KVA	45KVA	60KVA
OUTPUT										
Rated Voltage	single phases 220V±1%									
Frequency	50/60Hz±0.5% (inverted tense)									
Waveform Distortion	Pure sine wave, distortion ≤2.5 as with linear loads, while ≤3 as with non-linear loads (when full load)									
Imbalance of parallel	current <5%									
Overload Capacity	Over load 120% can last 10 minutes, over load 150% can last 20 seconds									
Wave Crest Coefficient	5:1(full loading)									
BATTERY										
Rated Voltage	192VDC									
Battery Nos.	12Vdcx32 nos.									
Battery Voltage	12 Vdc (15-20 nos adjustable)									
Back-up Time	Extra battery (back-up time is determined by battery capacity)									
Back-up Time for battery built-in type	Battery built-in type, use 12V/7AH VRMF lead acid battery									
	13 min	8 min	6 min	5 min	N/A					
System										
Transfer Time	AC↔battery 0 ms; Inverter↔bypass < 4 ms									
Ingress Protection	IP20									
Conversion Efficiency	≥85%(full loading)									
Noise	50db(1 meter)			53db(1meter)				55db(1meter)		
ENVIRONMENT										
Temperature	0℃~45℃									
Humidity	0~93% RH,non-condensing									
Altitude	<1500m									
Size										