CDT33-N Series UPS

Features

- 10, 15, 20, 30 and 40 kVA UPS capacity
- 3-Phase input, 3-Phase output
- Ultra high efficiency up to 96% in Double Conversion mode / 99% in Line Interactive mode
- Double Conversion with capability for switching to Multi-Mode
  (Automatically switches between Double Conversion and Line Interactive modes according to mains status if Multi-Mode is activated)
- Intelligent controls with Digital Signal Processing (DSP)
- Unlimited parallel expansion capability
- 3-Level intelligent charging mode
- Wide ranges of input voltage and input frequency
- Excellent generator compatibility
- Shared or separated batteries in parallel configuration (selectable)
- Adjustable charging current
- Advanced battery management
- Intelligent monitoring function
- Easy maintenance by providing optional MBB (Make Before Break) manual bypass
- Optional Emergency Power Off function (EPO)

Technical Specifications

General						
UPS model		CDT33-N10	CDT33-N15	CDT33-N20	CDT33-N30	CDT33-N40
Rated power		10kVA/9kW	15kVA/13.5kW	20kVA/18kW	30kVA/27kW	40kVA/36kW
Applicable standard		IEC62040-3				
UPS classification		VFI SS CCC* *C: 1 or 2 or 3 by order refer to IEC 62040-3				
UPS topology		Double Conversion / Multi-Mode (selectable by user)				
Efficiency		94%	95%			96%
Parallel expansion capability		Up to 48 units				
N+1 redundancy capability		Yes				
Dimensions (H×W×D)		870 × 250 × 830 mm				
Weight		42kg	45kg	46kg	71kg	73kg
Acoustic noise at 1m		≤58dBA				
Degree of protection against hazards and water ingress		IP20				
Mean Time Between Failures (MTBF)		100,000h				
Environmental						
Operating temperature		0°C to +40°C				
Storage temperature		-25°C to +55°C				
Humidity		0 to 95% non-condensing				
Altitude	at rated power 0.974 × rated power 0.920 × rated power 0.872 × rated power 0.820 × rated power	≤1500m ≤2000m ≤3000m ≤4000m ≤5000m				
Input						
Phases required		3Ph+N+PE				
Rated voltage		400Vac				
Voltage tolerance	100% load 70% load 50% load	±20% -30% to +20% -48% to +20%				
Frequency range		35Hz to 70Hz				
Power factor		≥0.99				
THDi		≤3%				
Bypass voltage range	max. voltage min. voltage	400Vac +10% 400Vac -20% (optional-10%)				
Output						
Output phases available		3Ph+N+PE				

Output (continue)					
Rated voltage	400Vac				
Voltage regulation					
double conversion mode	±1%				
stored energy mode	±1%				
Power factor	0.9				
Frequency					
double conversion mode	50/60Hz ±10% (adj.)				
stored energy mode	50/60Hz ±0.1%				
Crest factor	3:1				
THD					
linear load	≤2%				
nonlinear load	≤3%				
Transfer time					
double conversion mode to stored energy mode	0.00Sec				
double conversion mode to bypass	0.00Sec				
Overload					
double conversion mode					
up to110%	60min				
>110% up to 125%	10min				
>125% up to 150%	1min				
>150%	transfer to bypass				
energy saving mode (according to breaker curve)	20A breaker	32A breaker	40A breaker	63A breaker	80A breaker

Battery		
Battery type	All types of lead acid and gel, sealed or vented	
Normal voltage	192Vdc up to 240Vdc (selectable)	384Vdc up to 480Vdc (selectable)
Max. charge current	10A	

Protections
Short circuit
Overload
Output overvoltage
Overheat
Battery low
Battery reverse (optional)
Self-diagnostics
EPO (optional)

Display	
Audible & visual	Mains Failure, Low Battery, Overload, System Fault
Status LED & LCD	Double Conversion Mode, Energy Saving Mode, Low Battery, Battery Test Failure, Overload, UPS Fault
LCD information	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Parameters Set., History Record

Communication Interface
USB, RS485, Dry contacts (optional), SNMP card (optional), Relay card (optional), Parallel port

In the interest of continual product improvement all specifications are subject to change without notice.