

CDR11-N Series UPS



> Features

- 1,2,3,6 and 10 kVA UPS capacity
- Rack mount UPS
- Designed for 19" standard rack with 2 units height for 1kVA UPS and 3 units height for others
- Internal battery capability for 1,2 and 3kVA UPS
- 1-Phase input, 1-phase output
- 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 for 6 and 10 kVA UPS
- 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 Specifications					
UPS model	CDR11-N01/	CDR11-N02 /	CDR11-N03 /		
or a model	CDR11-N01i ¹	CDR11-N02i	CDR11-N03i	CDR11-N06	CDR11-N10
Rated power	1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	6kVA/5.4kW	10kVA/9kW
Applicable standard	IEC62040-3				
UPS classification	VFI SS <u>CCC</u> *				
	*C: 1 or 2 or 3 by order refer to IEC 62040-3				
UPS topology	Double Conversion / Multi-Mode				
	(selectable by user)				
Efficiency	87% 89% 94%		-%		
Parallel expansion	Lin Proster of			aitad	
capability	- Unlimited				
N+1 redundancy capability	Yes				
Dimensions (HxWxD)			10(19") × 520	131(3U) × 443(19") × 580	
	440(19") ×		ım	m	•
Woight	380 mm	11 760 /	11 7kg /	221/4) Elva
Weight	7kg /	11.7kg /	11.7kg /	23kg	25kg
Acquetic noice at 1 m	12kg	26kg	28kg	-	dn v
Acoustic noise at 1m		≤45dBA		≤55	<u> </u>
Degree of protection	1000				
against hazards and water	IP20				
ingress					
Mean Time Between	100,000h				
Failures (MTBF)					
Environmental			0001 4000		
Operating temperature	0°C to +40°C				
Storage temperature	-25°C to +55°C				
Humidity		0 to 95% non-condensing			
Altitude					
at rated power	≤ 1500m				
0.974 x rated power	≤ 2000m				
0.920 x rated power	≤ 3000m				
0.872 x rated power	≤ 4000m				
0.820 x rated power	≤ 5000m				
Input			4.01		
Phases required	1Ph+N+PE				
Rated voltage			230Vac		
Voltage tolerance					
100% load	±20%				
70% load	-30% to +20%				
50% load	-48% to +20%				

 $^{^{1}}$ i: internal battery UPS





Frequency range	35Hz to 70Hz				
Input (continue)					
Power factor	≥0.99				
THDi	≤3%				
Bypass voltage range					
max. voltage		230Vac +10%			
min. voltage	230Vac -20% (optional -10%)				
Output					
Output phases available	1Ph+N+PE				
Rated voltage	230Vac				
Voltage regulation					
double conversion mode	±1%				
stored energy mode	±1%				
Power factor		0.8		.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	0.00S				
stored energy mode					
double conversion mode to					
bypass		0.00\$			
Overload					
double conversion mode	105% up to 150	0%: 30S then transfer to bypass	up to110	%: 60min	
	>150%: transfer to bypass		>110% up to 125%: 10min		
			>125% up to 150%: 1min		
			>150%: trans	fer to bypass	
energy saving mode	105% to 150	0%: 30S then cut off output	40A breaker	60A breaker	
	>15	0%: cut off output	(according to	(according to	
Datton		'	breaker curve)	breaker curve)	
Battery type	A 11	types of lead acid and gel, sea	lad or non soal	od	
Battery type	types of lead acid affu gel, sea				
Normal voltage	24Vdc	72Vdc	192Vdc up to 240Vdc (selectable)		
Max. charge current	 7A /		(selectable)		
ivias. Charge cultetit		1A	6A		
	- /	- /			
Internal battery	2x12Vx7or9 Ah	6x12Vx7or9 Ah		-	





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.