

## Chloride 90-NET UPS (180 - 750 kVA)



Secure, scalable power for today's and tomorrow's data center requirements.

### Chloride 90-NET UPS

The Chloride 90-NET UPS Series is designed to meet the changing priorities and requirements of modern data centers in configurations of up to eight modules.

The series is optimized for high density applications ranging from conventional servers and communications gear to advanced blade servers—without derating or modification. Solid design and technology, paralleling capability, and dual inputs assure the highest levels of system availability while setting new standards for efficiency, cost-effectiveness, flexibility, and quiet operation.

### Dependable technology

- True on-line operation
- High efficiency
- Blade server (leading power factor) ready
- 0.9 leading to 0.9 lagging load power factor without derating
- Vector-control IGBT inverter
- Advanced battery management
- Low input THDi
- LIFE.net for real-time monitoring of UPS status from the Chloride Service Center

### Convenient features

- Parallelable, up to 8 modules
- User friendly display and operator controls
- ManageUPS® (SNMP/Web) Adapter\*
- Quiet operation
- Dual input capability
- Power walk-in capability (selectable)
- Generator mode (selectable)
- Easy installation and maintenance
- Internal maintenance bypass standard on 180-500 kVA models, optional on 750 kVA models

\* 180-500 kVA models include ManageUPS Adapter and 750 kVA models include ManageUPS Adapter +E (with environmental sensors).

### Versatile options

- External maintenance bypass
- Space-saving internal maintenance bypass
- ManageUPS CIO web based management software
- ManageUPS Net Adapter +B Modbus
- MopUPS® PR parallel/redundant management/shutdown software
- Extended warranties and service plans
- Preventative maintenance packages
- Multiple bus synchronization module

### Reliable service

- 24-hour technical support
- Nationwide network of local, experienced factory trained technicians

### Assured safety & quality

- Listed to UL 1778, CSA 22.2 No. 107.3
- ISO 9001 & ISO 14001

90-NET UPS model	Model 225		Model 400		Model 500	Model 750
	180 kVA	225 kVA	300 kVA	400 kVA	500 kVA	750 kVA
Base unit part number	90NET/225/180-44	90NET/225/225-44	90NET/400/300-44	90NET/400/400-44	90NET500/500-44	90NET/750/750-44
Power rating @ 0.9 power factor (kVA/kW)	180/162	225/202	300/270	400/360	500/450	750/675
Input voltage single input (VAC)	480, 480/277 (if neutral is used)		480, 480/277 (if neutral is used)		480, 480/277 (if neutral is used)	480, 480/277 (if neutral is used)
Input voltage dual input (VAC)	480 rectifier, 480/277 bypass (if neutral is used)		480 rectifier, 480/277 bypass (if neutral is used)		480 rectifier, 480/277 bypass (if neutral is used)	480 rectifier, 480/277 bypass (if neutral is used)
Input voltage tolerance	+ 15% / -15%	+ 15% / -15%	+ 15% / -15%	+ 15% / -15%	+ 15% / -15%	+ 15% / -15%
Input frequency (Hz)	60 ±5%	60 ±5%	60 ±5%	60 ±5%	60 ±5%	60 ±5%
Input power factor	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9
Input current (nominal/maximum) (A)	225/295	285/355	386/466	513/625	641/780	962/1173
Input THDi	≤ 7%	≤ 7%	≤ 7%	≤ 7%	≤ 7%	≤ 5%
Output voltage (VAC)	480/277	480/277	480/277	480/277	480/277	480/277
Output voltage regulation	±1% with balanced load; ±3% with 100% unbalanced load					
Nominal output current (A)	217	271	361	481	601	903
Voltage THD	< 3% for 100% linear loads		< 3% for 100% linear loads		< 3% for 100% linear loads	
Load power factor (without derating)	0.9 leading - 0.9 lagging		0.9 leading - 0.9 lagging		0.9 leading - 0.9 lagging	
Output frequency (Hz)	60 Hz ±0.75% (selectable)		60 Hz ±0.75% (selectable)		60 Hz ±0.75% (selectable)	
System efficiency	up to 93.4%	up to 93.5%	up to 93.6%	up to 93.8%	up to 93.8%	up to 93%
Full load heat rejection (BTU/hr)	39,059	48,033	63,100	81,300	101,500	173,402
Runtimes	call factory	call factory	call factory	call factory	call factory	call factory
UPS dimensions HxWxD - in (cm)	77.3 x 56 x 33.6 (196.4 x 142.2 x 85.4)		77.3 x 74.7 x 33.6 (196.4 x 189.7 x 85.4)		77.3 x 131.3 x 33.6 (196.4 x 333.5 x 85.4)	
UPS net weight - lbs (kg)	2,867 (1,300)	2,867 (1,300)	4,515 (2,048)	4,515 (2,048)	4,975 (2,257)	9,371 (4,250)
UPS ship weight - lbs (kg)	3,067 (1,391)	3,067 (1,391)	4,715 (2,138)	4,715 (2,138)	5,175 (2,347)	9,820 (4,454)
Overload capacity	150% for 1 min.; 125% for 10 min.		150% for 1 min.; 125% for 10 min.		150% for 1 min.; 125% for 10 min.	
Inverter technology	IGBT with vector control system— DSP technology for real time response to overloads and power disturbances					
Maximum acoustical	65 dBA @ 1 meter		70 dBA @ 1 meter		72 dBA @ 1 meter	
Connectivity	SNMP, dry contact (standard)		SNMP, dry contact (standard)		SNMP, dry contact (standard)	
Temperature	operating: +32°F - +104°F (0°C - +40°C)		operating: +32°F - +104°F (0°C - +40°C)		operating: +32°F - +104°F (0°C - +40°C)	
Relative humidity	≤ 95%, non-condensing		≤ 95%, non-condensing		≤ 95%, non-condensing	
Altitude	5000 feet (1500 m) asl without derating		5000 feet (1500 m) asl without derating		5000 feet (1500 m) asl without derating	

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