

Chloride EDP70Plus (30 - 80 kVA)



Rugged, reliable double conversion technology for demanding applications

Chloride EDP70Plus UPS

The EDP70Plus Model 50 and Model 80 are rugged, field-proven UPSs, configurable to provide secure power solutions for requirements ranging from 30 to 80 kVA, 208 and 480 volts in and/or out.

They are ideally suited for small to medium data centers, light industrial applications, medical imaging equipment, and other critical applications.

The EDP70Plus can be configured in either single module or isolated redundant configurations for heightened availability.

Dependable technology

- True on-line protection
- IGBT PWM inverter
- Input/output circuit breakers
- Advanced battery management
- Generator compatibility
- High overload capacity
- Fast acting, continuous duty static switch
- Separately derived source

Convenient features

- One year LIFE.net monitoring service free
- User friendly, multilingual display
- Caster-equipped for ease of installation
- Dual RS232 ports
- Internal maintenance bypass

Versatile options

- Dual input (480 V only)
- Isolated redundant configuration
- External maintenance bypasses
- Field capacity upgrades
- Variety of battery choices
- Full Chloride connectivity suite
- 10% harmonic filter

Reliable service

- Three year battery warranty (VRLA)
- 24-Hour technical service

Assured safety & quality

- UL 1778 listed
- ISO 9001 & ISO 14001
- CSA-C22.2 No. 107.1-95

CHLORIDE

MODEL 50 EDP70plus UPS model 50	30 kVA			40 kVA			50 kVA		
	2x2	4x2	4x4	2x2	4x2	4x4	2x2	4x2	4x4
Base unit part number	Plus50/30-2x2	Plus50/30-4x2	Plus50/30-4x4	Plus50/40-2x2	Plus50/40-4x2	Plus50/40-4x4	Plus50/50-2x2	Plus50/50-4x2	Plus50/50-4x4
Power rating @ 0.8 power factor (kVA/kW)	30/24	30/24	30/24	40/32	40/32	40/32	50/40	50/40	50/40
Input voltage single input (VAC)	208	480	480	208	480	480	208	480	480
Input voltage tolerance	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%
Input frequency (Hz)	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%
Input power factor	> 0.9 with filter			> 0.9 with filter			> 0.9 with filter		
Input current (nominal/maximum) (A)	91/114	39/48	39/48	122/152	52/65	52/65	152/190	65/81	65/81
Input THDi	≤ 10% with filter			≤ 10% with filter			≤ 10% with filter		
Output voltage (VAC)	208Y/120	208Y/120	480Y/277	208Y/120	208Y/120	480Y/277	208Y/120	208Y/120	480Y/277
Output voltage regulation	± 3%, 100% unbalanced load			± 3%, 100% unbalanced load			± 3%, 100% unbalanced load		
Nominal output current (A)	83	83	36	111	111	48	138	138	60
Voltage THD	< 3%, linear load < 5% 100% non-linear load			< 3%, linear load < 5% 100% non-linear load			< 3%, linear load < 5% 100% non-linear load		
Output frequency (Hz)	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%
System efficiency @ 100% load (%)	89	91	91	89	91	91	89	91	91
Full load heat rejection (BTU/hr)	10,130	8,104	8,104	10,503	10,805	10,805	16,878	13,506	13,506
UPS dimensions HxWxD - in (cm)	63 x 35.4 x 28.7 (159 x 89 x 72)			63 x 35.4 x 28.7 (159 x 89 x 72)			63 x 35.4 x 28.7 (159 x 89 x 72)		
UPS net weight - lbs (kg)	1850 (841)	1350 (614)	1350 (614)	1850 (841)	1350 (614)	1350 (614)	1850 (841)	1350 (614)	1350 (614)
UPS ship weight - lbs (kg)	contact factory			contact factory			contact factory		
Inverter technology	IGBT PWM			IGBT PWM			IGBT PWM		
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.		
Maximum acoustical	52 dBA @ 3 feet			52 dBA @ 3 feet			52 dBA @ 3 feet		
Connectivity	RS-232 standard; SNMP/WEB optional; LIFE.net free for 1 year			RS-232 standard; SNMP/WEB optional; LIFE.net free for 1 year			RS-232 standard; SNMP/WEB optional; LIFE.net free for 1 year		
Temperature	+18° F to +104°F (- 8°C to + 40°C)			+18° F to +104°F (- 8°C to + 40°C)			+18° F to +104°F (- 8°C to + 40°C)		
Relative humidity	0-95% noncondensing			0-95% noncondensing			0-95% noncondensing		
Altitude without derating - ft (M) ASL	5000 (1500)			5000 (1500)			5000 (1500)		

MODEL 80 EDP70plus UPS model 80	50 kVA			65 kVA			80 kVA		
	2x2	4x2	4x4	2x2	4x2	4x4	2x2	4x2	4x4
Base unit part number	Plus80/50-2x2	Plus80/50-4x2	Plus80/50-4x4	Plus80/65-2x2	Plus80/65-4x2	Plus80/65-4x4	Plus80/80-2x2	Plus80/80-4x2	Plus80/80-4x4
Power rating @ 0.8 power factor (kVA/kW)	50/40	50/40	50/40	65/52	65/52	65/52	80/64	80/64	80/64
Input voltage single input (VAC)	208	480	480	208	480	480	208	480	480
Input voltage tolerance	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%	± 15%
Input frequency (Hz)	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%	60 Hz ± 5%
Input power factor	> 0.9 with filter			> 0.9 with filter			> 0.9 with filter		
Input current (nominal/maximum) (A)	152/190	65/81	65/81	198/248	84/105	84/105	244/305	103/129	103/129
Input THDi	≤ 10% with filter			≤ 10% with filter			≤ 10% with filter		
Output voltage (VAC)	208Y/120	208Y/120	480Y/277	208Y/120	208Y/120	480Y/277	208Y/120	208Y/120	480Y/277
Output voltage regulation	± 3%, 100% unbalanced load			± 3%, 100% unbalanced load			± 3%, 100% unbalanced load		
Nominal output current (A)	139	139	60	180	180	78	222	222	96
Voltage THD	< 3%, linear load < 5% 100% non-linear load			< 3%, linear load < 5% 100% non-linear load			< 3%, linear load < 5% 100% non-linear load		
Output frequency (Hz)	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%	60 Hz ±0.1%
System efficiency @ 100% load (%)	89	91	91	89	91	91	89	91	91
Full load heat rejection (BTU/hr)	16,878	13,506	13,506	21,941	17,558	17,558	27,005	21,609	21,609
UPS dimensions HxWxD - in (cm)	63 x 35.4 x 28.7 (159 x 89 x 72)			63 x 35.4 x 28.7 (159 x 89 x 72)			63 x 35.4 x 28.7 (159 x 89 x 72)		
UPS net weight - lbs (kg)	2310 (1045)	1800 (823)	1800 (823)	2310 (1045)	1800 (823)	1800 (823)	2310 (1045)	1800 (823)	1800 (823)
UPS ship weight - lbs (kg)	contact factory			contact factory			contact factory		
Inverter technology	IGBT PWM			IGBT PWM			IGBT PWM		
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.		
Maximum acoustical	52 dBA @ 3 feet			52 dBA @ 3 feet			52 dBA @ 3 feet		
Connectivity	RS-232 standard; SNMP/WEB optional; LIFE.net free for 1 year			RS-232 standard; SNMP/WEB optional; LIFE.net free for 1 year			RS-232 standard; SNMP/WEB optional; LIFE.net free for 1 year		
Temperature	+18° F to +104°F (- 8°C to + 40°C)			+18° F to +104°F (- 8°C to + 40°C)			+18° F to +104°F (- 8°C to + 40°C)		
Relative humidity	0-95% noncondensing			0-95% noncondensing			0-95% noncondensing		
Altitude without derating - ft (M) ASL	5000 (1500)			5000 (1500)			5000 (1500)		

Model 50 Runtimes*	30 kVA hr:min	40 kVA hr:min	50 kVA hr:min	Cabinet type	Cabinet net wt lb (kg)	Cabinet ship wt lb (kg)	Cabinet dimensions in (cm) HxWxD
Pack 401	0:22	0:14	0:10	E	1330 (603)	contact factory	63 x 17.8 x 28.7 (160.5 x 45.3 x 73.1)
Pack 402	0:35	0:23	0:17	F	1860 (844)	contact factory	63 x 33.5 x 28.7 (160.5 x 85.3 x 73.1)
Pack 403	0:51	0:36	0:26	(1) E + (1) F	3090 (1402)	contact factory	63 x 51.3 x 28.7 x (160.5 x 130.6 x 73.1)
Pack 404	0:51	0:36	0:26	C	2950 (1338)	contact factory	70 x 33 x 33 (178.3 x 84 x 84)
Pack 405	1:01	0:42	0:31	C	2950 (1338)	contact factory	70 x 33 x 33 (178.3 x 84 x 84)
Pack 406	1:15	0:51	0:38	D	3900 (1769)	contact factory	70 x 40 x 33 (178.3 x 102 x 84)
Pack 407	2:02	1:21	1:02	(2) C	5900 (2676)	contact factory	70 x 66 x 33 (178.3 x 168.1 x 84)
Pack 408	2:21	1:43	1:18	(2) C	6800 (3084)	contact factory	70 x 66 x 33 (178.3 x 168.1 x 84)

* Runtimes are based upon fully charged, new batteries. runtimes are affected by battery age, ambient temperature, site-specific UPS usage patterns, and operating load characteristics. Actual runtimes may vary.

** Internal battery packs are available only on units with 208 V input and 208 Y/120 V output configurations.

Model 80 Runtimes*	50 kVA hr:min	65 kVA hr:min	80 kVA hr:min	Cabinet type	Cabinet net wt lb (kg)	Cabinet ship wt lb (kg)	Cabinet dimensions in (cm) HxWxD
Pack 401	0:09	0:07	0:05	E	1330 (603)	1530 (695)	63 x 17.8 x 28.7 (160.5 x 45.3 x 73.1)
Pack 402	0:17	0:11	0:07	F	1860 (844)	2060 (936)	63 x 33.5 x 28.7 (160.5 x 85.3 x 73.1)
Pack 403	0:26	0:18	0:13	(1) E + (1) F	3090 (1402)	3290 (1495)	63 x 51.3 x 28.7 x (160.5 x 130.6 x 73.1)
Pack 404	0:26	0:18	0:13	C	2950 (1338)	3150 (1432)	70 x 33 x 33 (178.3 x 84 x 84)
Pack 405	0:31	0:22	0:16	C	2950 (1338)	contact factory	70 x 33 x 33 (178.3 x 84 x 84)
Pack 406	0:38	0:26	0:20	D	3900 (1769)	4100 (1864)	70 x 40 x 33 (178.3 x 102 x 84)
Pack 407	0:61	0:47	0:36	(2) C	5900 (2676)	6100 (2773)	70 x 66 x 33 (178.3 x 168.1 x 84)
Pack 408	0:77	0:55	0:42	(2) C	6800 (3084)	7000 (3182)	70 x 66 x 33 (178.3 x 168.1 x 84)

* Runtimes are based upon fully charged, new batteries. runtimes are affected by battery age, ambient temperature, site-specific UPS usage patterns, and operating load characteristics. Actual runtimes may vary.

** Internal battery packs are available only on units with 208 V input and 208 Y/120 V output configurations.

This company has a policy of continuous product development and improvement, and we therefore reserve the right to vary any information or specification without prior notice.

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