CHLORIDE® CP60Z

AC Uninterruptible Power Supply System 5 to 60 kVA (1-ph or 3-ph output)

DISCONTINUED



Customized to user specification Full portfolio of industrial options Chloride® CP60Z industrial Uninterruptible Power Supply (UPS) system meets the latest industrial requirements and embeds the latest R&D innovations for an improved efficiency and reduced operating costs.

BENEFITS

Energy savings: Improved efficiency means reduced power consumption and smaller air conditioning system

Project savings: Higher input power factor and lower inrush current allow smaller upstream transformer, switchgear and cables and reduce line current and losses in the cables

Safe and easy maintenance: Segregated manual bypass and front access to major components improve safety and reduce MTTR (Mean Time To Repair)

Smart access to UPS data:

- Large graphical user interface with touch screen
- Embedded event logger (up to 2000 events) and capability to export the recorded events via USB stick

FEATURES

Low voltage ripple to reduce battery stress and optimize its lifetime

Low inrush current (< 4In in 12-pulse) not to oversize mains power supply

SCR-based rectifier, 6 or 12 pulses, with improved operation to significantly reduce the mains' pollution (THDi) and the input RMS current

Galvanic isolation: input and output transformers are standard on the complete range

Ingress protection IP42 is provided as standard to operate in the most demanding environments



Range Overview

Chloride® CP60Z is available from 5 to 60 kVA in single-phase or three-phase output configuration (from 1 x 110 V to 3 x 415 V) and offers 110 Vdc, 220 Vdc, and 400 Vdc battery voltages.

The UPS uses patented digital Vector Control technology which increases the performances, enables active conditioning of the load and allows personalised system settings.

Chloride[®] CP60Z can be adapted for project-specific requirements. A wide choice of industrialized extras allows system customization according to the most demanding technical specifications.

To further improve load availability and process reliability, the system is able to operate in dual parallel configuration, centralized or distributed, with single or dual batteries, and can include AC bus-tie.

Applications

- Oil & Gas, offshore and onshore
- Refining and Petrochemical industries

VERTIV

- Water infrastructures
- Mining
- Rail transport



CHLORIDE® CP60Z



Technical Data

RATINGS OUTPUT POWER	(kVA) v	s BATTE		TAGE (Vdd	;)				
110-120 Vdc	5	10	20	30	-	-	-		
220-240 Vdc	5	10	20	30	40	50	60		
400 Vdc	-	-	-	-	40	50	60		
INPUT									
AC voltage				80, 415) ⁽²⁾					
Voltage tolerance			10 %						
Frequency			Hz (60 F	łz)					
Frequency toleran	ce		5%						
Inrush current				pulse versi pulse versi					
Power factor			to 0.94						
BATTERY DC CIR	RCUIT								
Nominal DC voltag	ge			0-240 / 40	0 V				
Voltage stability	**		1% in flo		4161				
(with input within	wierance)			parallel rec		any discont	postod		
Voltage ripple Current limitation			ominal	, in float m	oue, Daile	a y uiscon	IECLEU		
OUTPUT									
Available ratings		see	e table (a	t PF 0.8 lag	ging)				
AC Voltage									
Single phaseThree phase				20, 240) ; 1 C (380, 415), 208)		
Frequency		50	Hz (60 F	łz)					
Frequency stabilit	,								
 With internal os 		,	0.05 %	1 +- 50/ -		、 、			
 With reserve sy 				n 1 to 5% a	djustable	:)			
Voltage stability (1	ror 0-100%			0/ for pore		~ ~ ~			
StaticDynamic				% for para s per IEC/E	,				
Inverter overload	capability		100 111 0		.11 020 10	0, 01000 1			
• 1 minute		150	0 % of no	minal powe	er				
 10 minutes 		125	5 % of nor	ninal powe	r				
Short circuit clear	ance (in %								
 1-ph output 2-ph output 	Ph-N			ms - 175 %					
 3-ph output 	Ph-N Ph-Pl			ms - 220 % ms - 135 %					
Harmonic voltage	distortion		,		,				
 With 100% linea 		< 3	%						
• With 100% non-	linear load	SS	as per IE	C/EN 6204	40-3				
Allowable power f	actor	0.5	lagging	to 0.5 leadi	ng ⁽³⁾				
Allowable crest fa	ctor	Up	to 3/1						
BATTERY									
Туре				r nickel cao					
Autonomic				combinatio			ucot		
Autonomy Battery current limitation			From few minutes to several hours, on request 0,1 C (lead acid battery)						
(typical, float & bo				l cadmium					
GENERAL DATA									
Operating tempera	ature		o 40 °C ⁽²⁾						
Storage temperature			-20 to +70 °C						
Relative humidity			<90 % non condensing						
Operating altitude			1000 m max without derating ⁽²⁾						
Cooling			Fan-assisted with redundant fans						
Efficiency			Up to 90% according to rating and configuration IP 42 according to IEC 60529						
External ingress p Internal protectior				ling to IEC Igainst unii		l direct co	ntacts, as		
			r IEC 609						
Noise (at 1m in front of the unit)			Less than 66 dB						
Cabinet colour			Grey RAL 7032 ⁽²⁾						
Dimensions		Va	Varying according to ratings & options						

	OPTIONS	
	Rectifier	 12-pulse rectifier Other input voltage (up to 3x690Vac) Surge and/or lightning protections Input circuit breaker
	Battery line	 Battery circuit protection box Battery reversed polarity detection Battery low-voltage disconnection contactor DC earth fault detection Battery black start Battery room temperature sensor Battery monitoring system (Chloride® BMS) Battery cabinet / rack
	Output	AC earth fault detectionOutput switch or circuit breaker
	Bypass line	 Bypass input circuit breaker Bypass transformer (H class) Bypass stabilizer (servo-controlled) Backfeed protection
	System	 Parallel configurations AC distribution Internal lighting Auxiliary power socket Anti-condensation heater UPS cabinet temperature monitor
	Mechanical	 Top cable entry Specified color of panels Special feet height (200mm or 300mm) Special keylock Non-magnetic gland plate (brass or aluminum) Lifting eyes 2mm side panels thickness Specified cabinet identification (tag, nameplate)
	Communication	 Front panel analogue meters (72x72, class 1.5 or class 1) Transducers 4-20mA Additional volt-free contacts Modbus RTU (RS232 or RS485) Modbus / TCP Profibus IEC61850 protocol PPVis monitoring software Mimic panel on front: Passive mimic of the system Active mimic with integrated LEDs Lamp indicator on front panel (22 mm diameter)
	STANDARDS	
	IEC62040-1:2008 +AMD1:2013	Uninterruptible power systems (UPS) - Part 1-2: General and safety requirements for UPS in restricted access locations
	IEC62040-2:2006	Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements
	IEC62040-3:2011	Uninterruptible power systems (UPS) - Part 3: Method o specifying the performance and test requirements
	IEC61439-1:2011	Low voltage switchgear and controlgear assemblies - Part 1: General rules

Part 1: General rules Degrees of protection provided by enclosures (IP Code) IEC60529:1989 +AMD1:1999 IEC60076-11:2004

Power transformers – Part 11: Dry type transformers

CONFORMITY

Low voltage directive	2006/95/EC and 2014/35/EU
EMC directive	2004/108/EC and 2014/30/EU
CE Mark	

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at power factor 0.8 lagging
 other available on request
 derating may apply

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