

CFRTU61-R96 1kVA – 5kVA

The CFRTU61 is a **heavy duty, high temperature, low frequency, on-line UPS** that is specially designed for **rigorous applications** where a standard commercial UPS could not survive.

This UPS can be used in a range of industries including rail, mining, steel, petrochemical, traffic management and has various applications other outdoor infrastructure.

The CFRTU61 has an isolation transformer with the ability to withstand and hold back short circuit current from the UPS, keeping it safe from damage. Before shutting down, 15 attempts to re-start are made and if in that time the short circuit is removed, the UPS will automatically resume normal operation.



Some key features include:

- Online double conversion technology
- Operating temperature to 60°C
- Outstanding overload capability
- Generator compatible
- Automatic temperature compensated charging
- Integrated static bypass switch
- Short circuit protection with auto recovery
- Smart current sharing technology supporting a 1+1 redundancy system
- RS232 or RS485 interface & dry contact
- Built-in SNMP
- LCD, LED display & control panel
- Optional bypass isolation transformer for full input isolation
- Higher power available
- External high power charger available for longer backup
- High voltage range at generator input

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Product Specifications

Model	CFRTU6103- R96-1	CFRTU6105- R96-1	CFRTU6101-6103 R96-2	CFRTU6105- R96-2
Capacity	3kVA	5kVA	1kVA 2kVA 3kVA	5kVA
Design	Low Frequency Online			
AC Input	Phase	Single		
	Voltage	110V _{AC} ± 15%	230V _{AC} ± 15%	
	Frequency	50Hz ± 10%		
AC Output	Phase	Single		
	Voltage	110V _{AC} ± 2%	230V _{AC} ± 2%	
	Frequency	50Hz ± 0.5%		
	Power Factor	0.8		
	Wave form	Pure sine		
	THD	< 2% THD linear load < 4% THD nonlinear load		
	Response Time	< 20ms		
	Crest Factor	3:1		
	Overload	≤ 125% for 10 Minutes, ≤ 150% for 1 Minute		
	Battery & Charger	Rated DC Voltage	96V _{DC}	
Charger		5A		
Charging Algorithm		Two stages – Constant current & floating		
Floating		109V _{DC}		
LVD		84V _{DC}		
Temp. Compensation		Automatic temperature compensation charging		
Efficiency		≥ 80% at full load		
System	Transfer Time	0ms		
	Protection	Overload, battery low, high voltage, over-temp and short circuit auto restart shuts down after 15 attempts		

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Physical	Working Temperature	-10 – 60°C (14 – 140°F) – Full load			
	Humidity	20 – 95% non-condensing			
	Altitude	< 1500m			
	Noise	< 55dB			
	Protection	IP20			
	Cooling	Thermal controlled fan			
	Weight Kg (lb)	40 (88)	52 (115)	93 (205)	
				1kVA - 39 (86)	
				2kVA - 46 (101)	
				3kVA - 53 (117)	
	Dimensions	482x480x180	482x525x270	482x480x180	482x525x270
	W x D x H	19" x 18.9" x 7"	19" x 21" x 10"	19" x 18.9" x 7"	19" x 21" x 10"
	LED Status	AC input, DC input, bypass, inverter, output and alarm – overload/DC low/Fault			
LCD	AC input, DC input, battery, alarm, UPS info, etc				
Communication	RS232 OR RS485 + Dry contacts				
Compliance	LVD	EN60950-1:2006+A11:2009			
	EMC	EN55022:2006 + A1:2007 EN61000-3-2:2006 + A1:2009 + A2:2009			
		EN61000-3-3:2008			
	Vibration	IEC 60068-2-6:1995			