

Alphapower

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

Product Specifications

Model	CFRTU6101-F96/192-2 - CFRTU6103-F96-2	CFRTU6104-F96/192-2 - CFRTU6106-F96-2	CFRTU61081-F96/192-2 - CFRTU6110-F96-2	
Rated Power	1KVA 2KVA 3KVA	4KVA 5KVA 6KVA	8KVA 9KVA 10KVA	
Design	Low Frequency On Line			
AC Input	Phase	single	Single/ 3 phases	
	Voltage (Gen Compatible)	220/230V _{AC} (±15%)	220/230V _{AC} (±15%) / 380V _{AC} (±15%)	
	Frequency (Gen Compatible)	50Hz ± 10%		
	Phase	Single		
AC Output	Voltage	220/230V _{AC} ± 2%		
	Frequency	50Hz ± 0.5%		
	Power Factor	0.8		
	Wave form	Pure sine		
	THD	<2% - linear load <4% - nonlinear load		
	Response time	<20ms		
	Crest Factor	3:01		
	Overload	≤125% 10min ≤150% 1min		
	Battery & Charger	Rated Voltage	96 / 192V _{DC}	
		Charger	4A	
Charging Algorithm		Two stages (Constant Current + Floating)		
Floating		109 / 218V _{DC}		
LVD		84 / 168V _{DC}		
Temperature Compensation	Automatic Temperature Compensation Charging			

System	Efficiency	≥80% - Full load	
	Transfer time	0ms	
	Protection	Overload, Battery low voltage, High voltage, Over-temperature, Short circuit - auto restart; shuts down after 15 attempts	
	Working temp	-10 – 60°C (14 – 140°F) Full load	
	Humidity	20 – 95% non-condensing	
	Altitude	< 1500m	
	Protection	IP20	
	Cooling	Thermal controlled fan	
	Noise (dB)	< 55dB	
	Dimensions	310 x 700 x 675 mm	310 x 700 x 870 mm
W x D x H	12" x 28" x 27"	12" x 28" x 34"	