

# 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



**Type approved for use in  
VIC and NSW rail networks**

**Product Specifications**

	Model	6101-R48	6102-R48	6103-R48	6105-R48
	Capacity	1kVA	2kVA	3kVA	5kVA
AC Input	Phase	Single			
	Voltage	110V <sub>AC</sub> or 230V <sub>AC</sub> ± 15%			
	Frequency	50Hz ± 10%			
AC Output	Phase	Single			
	Voltage	110V <sub>AC</sub> or 230V <sub>AC</sub> ±2%			
	Frequency	50Hz ± 0.5%			
	Power Factor	0.8			
	Wave form	Pure Sine			
	THD	<2% - linear load , <4% - nonlinear load			
	Dynamic Response	< 20ms			
	Crest Factor	3:1			
	Overload	≤ 125% for 10 Minutes , ≤ 150% for 1 Minute			
Battery & Charger	Rated DC Voltage	48V <sub>DC</sub>			
	Charger	6A (110V <sub>AC</sub> ) , 4A (230V <sub>AC</sub> )			
	Charging Stages	Two stages – Constant current & floating			
	Floating	54V <sub>DC</sub>			
	LVD	42V <sub>DC</sub>			
	Temp Compensation	Automatic temperature compensation charging			
System	Efficiency	≥ 80% at full load			
	Transfer Time	0ms			
	Protection	Overload, battery low, high voltage, over-temp and short circuit auto restart shuts down after 15 attempts			
Physical	Net Weight (110V <sub>AC</sub> / 230V <sub>AC</sub> )	39kg / 75kg	46kg / 82kg	53kg / 89kg	93kg / 129kg
	Protection	IP20			
	Dimensions W x D x H (mm)	482 x 520 x 267			482 x 525 x 312
Display	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			
Standards	LVD	EN60950-1:2006 + A11:2009			
	EMC	EN55022:2006 + A1:2007			
		EN61000-3-2:2006 + A1:2009 + A2:2009			
	Vibration	EN61000-3-3:2008 IEC 60068-2-6:1995			
Environment	Ambient Operation	-10 ~ 60°C - Full Load 20 ~ 95% humidity - non-condensing			
	Noise	< 55dB			
	Altitude	< 1500m			
	Cooling	Thermal controlled fan			