

FINCH RT

UPS - 6 KVA - 10 KVA
RACK / POWER MOUNT

Single Phase Rack / Tower Mount UPS

Finch RT delivers a high quality of power with an efficiency of upto 96% in online double conversion (VFI Mode) mode using advanced three level technology and with the flexibility of rack mount or tower mount installation. The system is designed with an output power factor of unity (KVA-KW) providing higher power density, delivers 11% more power when compared with the conventional UPS (designed with 0.9PF).



Reliability

- Online Double Conversion UPS protecting loads from all types of power quality issues
- Self-ageing function enable user to test UPS at customer site without load
- Failure waveform record function help to solve problem quickly
- Fan speed can be auto conditioned according to the loads, input voltage or working mode
- Digitally controlled and intelligent battery management to extend the battery life

Flexibility

- Compatible for Rack / Tower installation
- Can be paralleled up to 4 units for increased battery availability
- Flexible/settable battery configuration
- Full load test on site with less than 10% of the total power capacity
- Battery cold start feature allows UPS to be powered on from the battery without utility

Cost of Ownership

- Wide tolerance of the input voltage reduces switchovers to battery mode prolonging battery life.
- Delivers 11% more power when compared with the conventional UPS (designed with 0.9PF).
- Green and energy saving: AC/AC efficiency upto 96%, input power factor >0.99 while input THDi<3%.

Communication Options

- Emergency power off remote UPS shutoff in the event of a fire or other emergency as standard
- Intelligent Communication Slot (optional) for Ethernet or RS485(Modbus)
- USB Port or RS232 for local monitoring (optional).

Applications

- Small size data centre
- Telecommunication, VoIP
- Small office network
- Data warehouses
- Medical diagnostics
- Process automation equipments



Technical Specification
Finch RT

6 KVA - 10 KVA

Model	Finch RT	
Capacity	6 KVA/KW	10 KVA/KW
Input		
Acceptable Input Voltage	110-288 VAC* at 50% load 160-288 VAC** at 100% load	
Phase	Single phase in, Single phase out	
Transfer Voltage Range	220 VAC / 230 VAC / 240 VAC	
Input Power Factor	≥0.99	
Input Current Distortion	< 3%	
Input Frequency Range	40 ~ 70 Hz	
Output		
Nominal Output Voltage	208/220/230/240VAC ± 1%	
Transient Response Time	<20msec	
Voltage THD	≤ 3% THD (Linear Load)	
Power	6 KVA	10 KVA
Output Voltage	Pure Sine Wave	
Voltage Regulation	± 1 %	
Output Frequency	(50 ± 0.1) Hz default (Battery Mode)	
Efficiency	Upto 95% in online mode, 98% in Eco Mode	
Load Handling Capacity	6.0 KW Continuous, 6.6 KW for 10 mins, 7.5 KW for 1 mins, 9 KW for 30 sec	10 KW Continuous, 11 KW for 10 mins, 12.5 KW for 1 mins, 15 KW for 30 sec
Crest Factor	3:1	
Waveform	Pure Sine wave	
Battery		
Quantity	PCS 16 - 20 Nos Settable	
Cold Start	Available	
Standard Charging Current	5A max, Settable	5A max, Settable
Indicator & Alarm		
Display	LED + LCD	
LCD	Mains on, Battery Level, Load Level, Inverter on, Overload, Load on mains, Battery, Battery Low	
Protection	Overload, Input Under Voltage, Over Voltage, Short Circuit, Battery Over Charging, Low Battery, Over Temperature & DC Low/High Voltage trip	
Metering	Digital Metering in UPS For AC Input Voltage, Output AC, Voltage, Current, Frequency, Battery Voltage and Current	
Alarm	Over temperature, Mains failure, Low battery, Overload	
Interface		
USB Com Port	Available	
Smart RS232	Standard Cable	
EPO	NC	
RS485 (option)	Installed in the intelligent soft	
SNMP (option)	Power management from SNMP manager and web browser with auto shutdown software	
Option		
Parallel	Upto 4 units	
Super Charger	12A	
Mechanical		
Ventilation	Forced Air Cooling	
Noise Level	Less than 55dBA @ 1 meter	
Operating Temperature	0-40°C	
WXDXH (mm)	440x550x86	440x550x86
Net Weight (Kgs)	16	18
Package Weight (Kgs)	18	21
Form Factor	2U (Rack Mount)	
Color	Black Default	
Electrical Connection		
Input Terminal	Terminal	
Output Terminal	Terminal	
ByPass	Inbuilt Static & Manual Bypass Switch	
Standards		
Ingress Protection	IP20	
Safety	EN 62040 - 1	
EMI / EMC	EN 62040 - 2	
Performance	IEC 62040 - 3	
Certification	BIS, ISO 9001,14001 & 45001 (OHSAS 18001), ROHS	

*Specifications are subject to change
 *Wider input range available on request
 **at 0.9 PF