Fuji Electric

Innovating Energy Technology

FINCH PW

UPS - 1 KVA - 10 KVA
Single Phase Input & Single Phase Output

On Line Double Conversion UPS

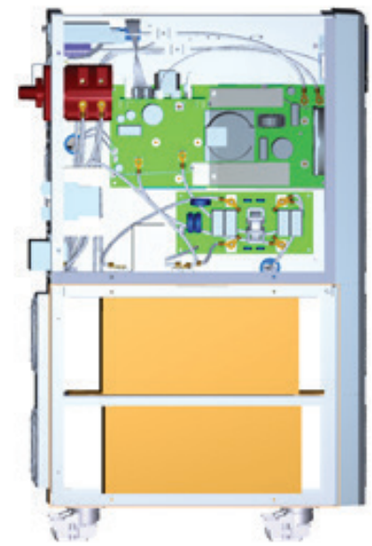
Finch PW is specifically designed for operation in poor power quality areas. Finch PW provides high power density with long backup time in compact size. It's ideal for ATMs, banking and other business critical applications where a higher backup time is required. Finch PW provides the flexibility to adjust charging current from 1A to 6A according to different applications and the possibility to have an additional charger to support longer backup times.

Topology

- Online double conversion UPS
- Input power factor corrector 0.99(PFC)
- Automatic bypass, allow to transfer the load to the mains in case of overload or internal fault
- Single Phase Input & Output

Flexibility

- Configurable as Single Phase Input & Output or Three Phase Input and Single Phase output on 10KVA
- Inbuilt Isolation Transformer(optional) provides a galvanic isolation between the mains and the loads
- Hot standby Configuration to ensure the availability of Quality power to mission critical applications
- Battery cold start feature allows UPS to be powered on from the battery without utility
- Inbuilt Manual bypass in 6&10KVA to facilitate concurrent maintenance without disturbing the loads
- Compact and reduced foot print with inbuilt battery on 1 - 6KVA



Total Cost of Ownership

- Wide tolerance of the input voltage reduces switchovers to battery mode,prolonging battery life
- Green and energy saving: AC/AC efficiency upto 98% in ECO Mode
- Common Battery bank feature(1-3KVA) optimises the cost of investment without compromising the redundancy needs.

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Technical Specification

Finch PW

1 KVA - 10 KVA

General		Finch PW				
Configuration		Single Phase with Ground				
Capacity		1KVA	2KVA	3KVA	6KVA	10KVA
Capacity		800W	1.6KW	2.4KW	4.8KW	8KW
Input						
Nominal Voltage		200/208/220/230/240VAC				
Input Voltage Range		110-300V AC (at 50% Load) or 160-280V AC (at 100% Load)			110-300V AC (at 50% Load) or 176-300V AC (at 100% Load)	
Frequency Range		40 Hz ~ 70 Hz			46 ~ 54 Hz	
Power Factor		≥ 0.99 @ Nominal Voltage (100% Load)				
Output						
Output Voltage		200/208/220/230/240VAC				
Voltage Regulation		± 1 %				
Frequence Range (Sychronized Range)		47 ~ 53 Hz			46 ~ 54 Hz	
Frequence Range (Batt. Mode)		50 Hz ± 0.25 Hz			50 Hz ± 0.1 Hz	
Current Crest Ratio		3:1				
Harmonic Distortion		≤3 % THD (Linear Load) ≤6 % THD (Non-Linear Load)			≤3 % THD (Linear Load) ≤5 % THD (Non-Linear Load)	
Waveform (Batt. Mode)		Pure Sinewave				
Overload		105% - 110% : 10mins; 110% - 130% - 1 min; >130% - 3 sec				
Efficiency						
AC Mode		88%	88%	90%	92%	93%
Battery						
Built in Battery	Battery Type	12 V / 9Ah	12 V / 7 Ah	12 V / 7 Ah	12 V / 7 Ah	
	Numbers	2	8	8	16	
	Typical Recharge Time	4 hours recover to 90% capacity			9 hours recover to 90% capacity	
	Charging Current (max)	1A			1A / 2A	
Long-run Model	Battery Type	Depending on the capacity of external batteries				
	Numbers	3	6	6	16 or 20	
	Charging Current (max)	1A/2A/4A/6A (Adjustable)			1A/2A/4A (Adjustable, 4A is only available)	
	Addtional Charger	12A	12A	12A	4A	4A
Indicators						
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
Physical						
Standard Model	Dimension, D x W x H(mm)	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318	369 x 190 x 688	
	Net Weight (kgs)	9.8	17	27.6	61	
Long-run Model	Dimension, D x W x H(mm)	282 x 145 x 220	397 x 145 x 220		369 x 190 x 688	442 x 190 x 318
	Net Weight (kgs)	4.1	6.8	7.4	12	16
Environment						
Humidity		20-90 % RH @ 0-40°C (Non-condensing)				
Noise Level		Less than 58dB @ 1 Meter				
Management						
Smart RS-232 / USB		Support Windows®2000/2003/XP/Vista/2008, Windows®7/8, Linux and MAC				
Optional RS485		SNMP, Modbus (RS485) and Potential Free Contact				

*Specifications are subject to change

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