



Falcon 5000

UPS - 10 to 160 kVA

Three Phase Input / Three Phase Output



Special Features

- ♦ 32 bit DSP controlled UPS
- ♦ IGBT based rectifier
- ♦ Input current THDi < 3%
- ♦ Input PF near unity
- ♦ Inbuilt galvanic isolation
- ♦ Space vector modulation technique
- ♦ 128 x 64 Graphics Display
- ♦ True RMS reading of more than 25 different parameters of UPS
- ♦ High end interfacing options
- ♦ Quiet operation, low audible noise
- ♦ Superior output quality ;
Output voltage distortion < 1%*
- ♦ Unique modular design, offering lowest MTTR
- ♦ Compact system, lowest footprint to kVA ratio in its category
- ♦ Advance thermal design and monitoring

*for linear load

Quality Power Protection

For the critical power requirements in Industrial, IT, Commercial, Communication and Office environment

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Three Phase Input / Three Phase Output

SPECIFICATIONS	Rating in KVA	10	20	30	40	60	80	120	160	
	Input									
	Nominal Voltage	415 V AC 3 ph + N ($\pm 15\%$)								
	Nominal Frequency	50 Hz (46 to 54 Hz)								
	Power Factor	≥ 0.99								
	THD i	$< 3\%$								
	Topology	32 bit DSP controlled								
	Battery Voltage	312 V DC			480 V DC			600 V DC		
	Output									
	Power in KW	8	16	24	32	48	64	96	128	
Power Factor	0.6 to Unity within KVA and KW rating									
Voltage	400 V / 415 V AC ($\pm 1\%$) 3 Ph (380 V / 440 V Optional)									
Frequency	50 Hz (± 0.1 Hz)									
Transient Response	$\pm 5\%$, recovery within one cycle to 98%									
Waveform	Sinusoidal									
Total Harmonic Distortion	$< 1\%$ max for Linear Load, $< 3\%$ max for Non-Linear Load (Ref IEEE 62040-3)									
Overload Capacity	110% for 60 min, 125% for 10 min, 150% for 60 sec									
Inverter Efficiency (Ref. IEC 60146-1-1)	up to 91%			up to 93%			up to 94%		up to 95%	
Bypass										
Voltage & Frequency	415 V AC , $\pm 15\%$, 50 Hz ($\pm 2.5\%$)									
Transfer Time	Synchronous mode : No break, Asynchronous mode < 5 ms									
Manual Bypass	Provided									
Environment										
Operating Temperature	0 to 40°C									
Storage Temperature	0 to 70°C									
Relative Humidity	up to 95% RH (Non-condensing)									
Maximum Operating Altitude	1000 m (without de-rating)									
Acoustic Noise @ 1m (Ref. ISO 3746)	≤ 62 dBA			≤ 65 dBA			≤ 68 dBA			
Enclosure Protection Grade	IP 20									
Ventilation	Forced air cooling									
Cable Entry	Bottom									
Dimensions in mm										
Width	500		600		800		1000	1200		
Depth	800		800		800		900	1000		
Height	1100		1750		1950		1950	1950		
Cabinet Finish	RAL 7016, Texture Finish									
Testing Standards	IEC 62040-3									
Communication										
Interface & Protocol	Intelligent RS 232									
Available Options	SNMP, MODBUS, Web based monitoring									

The information contained in this publication is subject to change without prior notice.

Registered Office

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