

SWITCHER[®]

True On-Line Ups Systems with Advanced PWM Technology



**PFC Series On-Line UPS Systems
3KVA to 120KVA**

About us :

We, Switching Power Conversion Pvt Ltd (Estd. the Year 2000, Formerly Switching Power Conversion Estd. 1994) are one of the utmost trusted manufacturers of Power Conditioners such as UPS Systems, Battery Chargers, Servo Stabilizers and Isolation Transformers from Bangalore, India. The Company under the brand names SWITCHER and ATHLETE has manufacturing facility at one of the most prominent industrial estates of Bangalore, Peenya and has in-house R&D department for continuous product development with all test and measuring instruments to manufacture UPS Systems ranging from 1kva to 120kva. SWITCHER and ATHLETE UPS systems are manufactured with the latest IGBT/MOSFET based state of the art technology with an installation base of over 10000 UPS systems. We have been serving State and Central Government Organisations, Educational Institutions, Corporate Companies, Leading Research Establishments, Engineering Industries, Digital Printing Industries, etc. Any type of customised UPS systems will be made available for imported heavy machinery loads. For over 25 years we have been serving our customers with good quality products, completely satisfying and dependable service, thereby ensuring good value for the money invested. In Fact, some of our Online UPS customers who were using our systems for a long period, have trusted to buy our UPS systems against MNC UPS systems during their business expansion for their expensive and valuable machinery loads. We are a good choice if you are looking to buy Made in India product, you not only get a reliable time tested product, but also the backing of a professional organisation with an excellent track record of customer satisfaction and long term investment value.

Product description :

SWITCHER Online UPS Systems come to you with right features to provide complete power protection and increase uptime for your critical and sophisticated loads such as Multiple PC Networks, Digital Printing Machines, CNC Machines, Medical, Lab, Telecom and Microprocessor based equipment's from every kind of power problems, be it spikes, surges, glitches, transients, voltage dips, harmonics, electrical noise, brownouts and other electrical disturbances to total blackouts. SWITCHER Online UPS Systems are designed with state of the art technology using adaptive PWM technique with IGBT's and true double-conversion topology. Apart from its proven reliability, extendable onsite service and warranty. SWITCHER UPS is available to you in a wide range of models with inbuilt and external batteries to provide short or longer backup time to suit every kind of application.

OUTSTADING FEATURES :

- IGBT RECTIFIER AND INVERTER
- TRUE RMS LCD DISPLAY
- ADVANCED PWM TECHNOLOGY
- TRUE DOUBLE CONVERSION TOPOLOGY
- HIGH EFFICIENCY
- FAST TRANSIENT RECOVERY
- HIGH SURGE CURRENT WITHSTANDING CAPACITY
- CUSTOMISED BACKUP TIME
- MOST RESPONSIVE SERVICE BACKUP

TECHNICAL SPECIFICATION

Specifications	33 PFC Series	31 NL Series	11 NL PFC Series
UPS Rating KVA	10kva/15kva/ 20kva/ 30kva/ 40kva/ 60kva/ 80kva/ 100kva/ 120kva	6Kva/7.5Kva/10Kva/15Kva/20Kva/30Kva/40Kva	3Kva/5Kva/6Kva/7.5Kva
UPS Rating KW	8kw/12kw/ 16kw/ 24kw/ 32kw/ 48kw/ 64kw/ 80kw/ 96kw	4.8Kw/6Kw/8Kw/12Kw/16Kw/24Kw/32Kw	2.4Kw/4Kw/4.8Kw/6Kw
Input (Rectifier)	IGBT Based Rectifier	IGBT Based Rectifier	IGBT Based Rectifier
Nominal AC Input Voltage	3 Phase 415 V AC + Neutral + Earth	3 Phase 415 V AC + Neutral + Earth	230V, 1 Phase, 3 Wire
Line Low/High Range	415V, -15%, +15%	415V, -15%, +15%	230V, +/- 15%
Frequency Range	47 Hz to 53 Hz	47 Hz to 53 Hz	47 Hz to 53 Hz
Power Factor	≥ 0.9 @ Nominal input voltage	>= 0.9	>= 0.85
OUTPUT (INVERTER)	PWM Technology with IGBT Based	IGBT BASED PWM TECHNOLOGY	IGBT BASED PWM TECHNOLOGY
Nominal Voltage	400V AC Programmable	230V +/- 1%	230V +/- 1%
Load Regulation	± 1 %	± 1 %	± 1 %
Dynamic Voltage response	<2 Cycles	<2 Cycles	<2 Cycles
Load Power Factor	0.8 Lag to Unity	0.8 Lag to Unity	0.8 Lag to Unity
Frequency	50 Hz ± 0.5%	50 Hz ± 0.5%	50 Hz ± 0.5%
Waveform	Pure Sinewave	Pure Sinewave	Pure Sinewave
Harmonic Distortion	< 3% (Linear Load)/ ≤ 5% (Non-Linear Load)	<3% (Linear Load), <5% (Non-Linear Load)	<3% (Linear Load), <5% (Non-Linear Load)
Efficiency	>90%	>90%	>85%
Crest Factor	3:01	3:01	3:01
Inverter Overload Capacity	105% Continuous 110% for 10 Minutes	105% Continuous 110% for 10 Minutes	105% Continuous 110% for 10 Minutes
Isolation Transformer	Galvanic Isolation	Galvanic Isolation	Galvanic Isolation
Battery			
Battery Type	Sealed Maintenance Free Lead Acid, Lead Acid Tubular	Sealed Maintenance Free Lead Acid, Lead Acid Tubular	Sealed Maintenance Free Lead Acid, Lead Acid Tubular
Battery Rating	12 V DC/ 42 AH to 150 AH Any Rating	12 V DC/ 42 AH to 150 AH Any Rating	12 V DC/ 42 AH to 150 AH Any Rating
Charger	240V DC/ 360 VDC Bus Constant Voltage Constant Current	192V/240V/360 VDC Bus Constant Voltage Constant Current	72V/120V/144V/192V/240 VDC Bus Constant Voltage Constant Current
General			
Operating Temperature	0 Deg. to 45 Deg. C	0 Deg. to 45 Deg. C	0 Deg. to 45 Deg. C
Humidity	Up to 95% RH non-Condensing	Up to 95% RH non-Condensing	Up to 95% RH non-Condensing
Indication LED/LCD Display	Mains On, Mains Fail, Phase Fail, Inverter On, Charger on, Battery low, Battery discharge, Inverter normal	Mains On, Inverter On, Inverter Fault, Charger On, Battery Low, Battery discharge, Inverter Normal	Mains On, Inverter On, Inverter Fault, Charger On, Battery Low, Battery discharge, Inverter Normal
Audible Alarm	Low Battery pre-Alarm,	Low Battery pre-Alarm,	Low Battery pre Alarm , UPS over current, Mains on Mains fail, Inverter trip
UPS Protection	Advanced Electronic Protection for Input over Voltage, Under Voltage, Device Safety backed with MCBs, Soft Start Feature for Rectifier and Inverter, Battery Current Limiting Protection, built in over load protection, IGBT Short Circuit Protection for Rectifier and Inverter.	Advanced Electronic Protection for Input Over Voltage, Under Voltage, Input Over Current, Device Safety backed with MCBs, Soft Start feature for Rectifier and Inverter, Battery Current limiting Protection, built-in Overload Protection, IGBT short circuit Protection for Rectifier and Inverter.	Advanced Electronic Protection for Input Over Voltage, Under Voltage, Input Over Current, Device Safety backed with MCBs, Soft Start feature for Rectifier and Inverter, Battery Current limiting Protection, built-in Overload Protection, IGBT short circuit Protection for Rectifier and Inverter.
Acoustic Noise	<60dB @ 1 Mtr	<60dB @ 1 Mtr	<60dB @ 1 Mtr

Note: As standard specifications and design from time to time, please ask for confirmation of the information given in this publication



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