









Manufacturers of:

Online UPS / Electrical Panels
Servo Voltage Stabilizers

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About the product _____

flickcet APEX series is a Single Phase input & Single Phase Output Double Conversion OnLine Uninterruptible Power Supply with inbuilt Isolation Transformer. It offers unparalleled 0.9 power factor, enabling support for demanding IT and critical loads across segments. With upto 94% efficiency, it helps reduce operating cost.

flickcet APEX Series Online UPS

Capacity: 3 Kva - 15 Kva

$Segments_{-}$ Infrastructure IT & ITes BFSI Manufacturing **Office** HealthCare Residential & SOHO Retails Education Online Data Centers Pharmacuticals Co. Hotels Generic Features

- Sine wave pulse with modulation.
- Computer grade power.
- IGBT inverter design.
- Wide input voltage range.
- O Pure sine wave output less than 3% THD.
- Expendable battery run time.
- Generator compatible.
- O Compact sleek design.

- O Design power factor of 0.9
- Input galvanic isolation transformer
- O Crystal controlled output frequency 50 Hz+ 0.01%.
- O High Crest factor 3:1.
- Intelligent battery management
- Over voltage cut-off device
- Automatic chargingin UPS off mode.



flickcet APEX Series Online UPS

Technical Specification _____

Committee (3 kVA	5 kVA	6 kVA	7.5 k VA	10 kVA	12.5 KVA
Capacity	2.7 KW	4.5 KW	5.4 KW	6.75 KW	9 KW	10.5 KW
Parameter						
INPUT	SINGLE PHASE					
Phase	Single phase with ground (L-N-G)					
Voltage Range	185 VAC - 280 VAC (based on load percentage)					
Frequency	50 Hz (auto sensing)					
Power Factor	*>0.99, >0.95 (above 25% load)					
THDi			<5% with	full load		
OUTPUT						
Design PF			0.	9		
Voltage	220 VAC / 230 VAC / 240 VAC					
Voltage Regulation			+ /-	1%		
Frequency		50	Hz + /-0.1 Hz (fr	ee running mod	de)	
Synchronization Range	45-50 Hz					
Voltage Distortion	≥2% (linear load)					
	≥5% (non-linear load)					
Output Waveform	Pure sine wave					
Crest Factor	3:1					
Efficiency (AC - AC)	Up to 90% Up to 93%					
OVERLOAD	3 KVA 5 – 12.5 KVA					
	110% - 10 min 125% - 10 min				n	
	130% - 1 min 150% - 1 min			١		
		150% - 10 se	С			
BATTERY						
Pattory Type	Sealed Lead Acid Maintenance Free, Lead Acid Tubular					
Battery Type	(battery AH and quantity depending on backup time)					
DC Voltage	120 VDC – 192 VDC					
Charger	Built-in solid state three stage recharge (constant current, constant voltage with					
Citalgei	float charge) and with temperature compensation					
GENERAL						
Operating Temperature	0 to 45 deg. C					
Noise Level	50 dB at 1 meter <55 dB at 1 meter					
Display & Indication	LCD display					
Status LED	Normal mode Load on battery System fault					
Audible Alarm	Mains failure alarm, Low battery alarm, UPS warning, Overload, Fault					





About the product _____

flickcet APEX+ series is a Three Phase input & Single Phase Output Double Conversion OnLine Uninterruptible Power Supply with inbuilt Isolation Transformer. It offers unparalleled 0.9 power factor, enabling support for demanding IT and critical loads across segments. With upto 94% efficiency, it helps reduce operating cost.

flickcet APEX+ Series Online UPS

Capacity: 10 Kva - 30 Kva

$Segments_{\perp}$

BFSI

IT & ITes

Infrastructure

Office

- HealthCare
- Manufacturing

Retails

Education

Residential & SOHO

Hotels

- Online Data Centers
- Pharmacuticals Co.

Generic Features

- Sine wave pulse with modulation.
- Computer grade power.
- IGBT inverter design.
- Wide input voltage range.
- O Pure sine wave output less than 3% THD.
- Expendable battery run time.
- Generator compatible.
- O Compact sleek design.

- O Design power factor of 0.9
- Input galvanic isolation transformer
- O Crystal controlled output frequency 50 Hz+ 0.01%.
- O High Crest factor 3:1.
- Intelligent battery management
- Over voltage cut-off device
- Automatic chargingin UPS off mode.



Technical Specification _____

Constitu	10 KVA	15 KVA	20 KVA	25 KVA	30 KVA	
Capacity	8 KW	12 KW	16 KW	20 KW	25KW	
Parameter						
GENERAL CHARACTERISTICS	THREE PHASE INPUT & SINGLE PHASE OUTPUT					
Technology	On-line double conversion					
Waveform	Pure sine wave					
Architecture	Stand Alone					
INPUT CHARACTERISTICS						
Input Voltage	R	lange: 280 - 470\	at 50% load & 30	00V - 460V at full lo	ad	
Input Frequency			50 Hz			
Input Voltage Range (Ph-Ph)			320-460 V			
THD of input current			<5% at full load	t l		
Compatibility with Generators			Yes			
Input power factor			>0.99			
OUTPUT CHARACTERISTICS						
Output Voltage			220, 230, 240 \	/		
Efficiency	up to 96%					
Efficiency in ECO mode	up to 98,5%					
Output frequency (nominal)	50 Hz					
Output frequency tolerance	±0,1%Synch with Mains; ±0,01% Free Run					
Crest Factor	Up to 3:1					
THD of output voltage	< 2% at full linear load					
Output power factor	0.9					
Output voltage tolerance	± 1%					
Overload Capability	10 min at 110%; 60 sec at 125%					
Bypass	Manual (Optional)					
BATTERIES						
Battery type	VRLA – Maintenance free					
Internal batteries	No					
External Batteries	Yes					
DC Voltage	240 VDC to 360 VDC					
Charger	Built-in solid state three stage recharge (constant current, constant voltage with float charge) and with temperature compensation					
GENERAL						
Operating Temperature	0 to 45 deg. C					
Noise Level	<55 dB at 1 meter					
Display & Indication	LCD display					
Status LED	Normal mode / Load on battery / System fault					
Audible Alarm	Mains failure alarm, Low battery alarm, UPS warning, Overload, Fault.					





About the product _____

flickcet APEX-3 series is a Three Phase input & Three Phase Output Double Conversion OnLine Uninterruptible Power Supply with inbuilt Isolation Transformer. It offers unparalleled 0.9 power factor, enabling support for demanding IT and critical loads across segments. With upto 94% efficiency, it helps reduce operating cost.

flickcet APEX-3 Series Online UPS

Capacity: 10 Kva - 400 Kva

Segments _

BFSI

IT & ITes

Infrastructure

Office

- **HealthCare**
- Manufacturing

Retails

Education

Residential & SOHO

Hotels

- Online Data Centers
- Pharmacuticals Co.

Generic Features

- Sine wave pulse with modulation.
- Computer grade power.
- IGBT inverter design.
- Wide input voltage range.
- O Pure sine wave output less than 3% THD.
- Expendable battery run time.
- Generator compatible.
- O Compact sleek design.

- O Design power factor of 0.9
- Input galvanic isolation transformer
- O Crystal controlled output frequency 50 Hz+ 0.01%.
- O High Crest factor 3:1.
- Intelligent battery management
- Over voltage cut-off device
- Automatic chargingin UPS off mode.



flickcet APEX-3 Series Online UPS

Technical Specification _____

Capacity	10 KVA	15 KVA	20 KVA	25 KVA	30 KVA	40 KVA	50 KVA
Сарасіту	8 KW	12 KW	16 KW	20 KW	25KW	32 KW	40KW
Parameter							
GENERAL	TUDEE DUACE INDUT 9 TUDEE DUACE OUTDUT						
CHARACTERISTICS	THREE PHASE INPUT & THREE PHASE OUTPUT						
Technology	On-line double conversion						
Waveform	Pure sine wave						
Architecture	Stand Alone						
INPUT CHARACTERISTICS							
Input Voltage		Range: 280 - 470V at 50% load & 300V - 460V at full load					
Input Frequency				50 Hz			
Input Voltage Range (Ph-Ph)				318-459 V			
THD of input current				<5% at full lo	ad		
Compatibility with Generators				Yes			
Input power factor				>0.99			
OUTPUT CHARACTERISTICS							
Output Voltage	380, 400, 415V (3Ph+N)						
Efficiency				up to 96%	8		
Efficiency in ECO mode				up to 98,5%	6		
Output frequency (nominal)				50 Hz			
Output frequency tolerance		±0,1%Synch with Mains; ±0,01% Free Run					
Crest Factor	Up to 3:1						
THD of output voltage	< 2% at full linear load						
Output power factor		0.9					
Output voltage tolerance	± 1%						
Overload Capability	10 min at 110%; 60 sec at 125%						
Bypass	Manual (Optional)						
BATTERIES							
Battery type	VRLA – Maintenance free						
Internal batteries	No						
External Batteries	Yes						
DC Voltage	240 VDC to 360 VDC						
Charger	Built-in solid state three stage recharge (constant current, constant voltage with float charge) and with temperature compensation						
GENERAL							
Operating Temperature				0 to 45 deg.	С		
Noise Level	<55 dB at 1 meter						
Display & Indication	LCD display						
Status LED	Normal mode / Load on battery / System fault						
Audible Alarm	Mains failure alarm, Low battery alarm, UPS warning, Overload, Fault.						



Servo Voltage Stabilizer Single Phase Air Cooled / Oil Cooled (Dimmer Type)

SALIENT FEATURES

- Fast corrections rate and very high efficiency.
- Works over wide input frequency range and no waveform distortion.
- Specially designed high performance I.C. based control circuit for ultrahigh reliability.
- Auto/Manual operation facility.
- Over voltage and under voltage Indicators.
- Output voltage adjustability provided on panel.
- Unaffected by load Power Factor.
- All components used are of reputed makes confirming to relevant IS/BS standards.
- Stabilizers are subject to routine and type tests in accordance with latest IS Standards (IS:9815-94).





ADVANTAGE OF SERVO VOLTAGE STABILIZER

- Corrects voltage automatically and continuously.
- Induction motor operate at high efficiency when supplied with constant voltage.
- Protects costly equipment from menace of High / Low Voltage, thus cutting down the maintenance cost.
- Low Production Losses & better efficiency in plant.
- Increased Productivity.100 % depreciation as per Income Tax Act. Reduces MDI and saves Power.
- Redution in electricity bills up to the level of approximately 15% (This depends on the input variation loading and the number of working hours) & saves on diesel cost, as generation not required to run at High / Low input voltage.
- The average pay back period of servo Controlled Voltage Stabilizer owing to it high energy saving capability is approx 18 months.

FIELD OF APPLICATION

Information Technology and call centers / Computer and Micro - Processor Controlled Equipments / Sophisticated research instruments used in Scientific / Medical / Agriculture / Educational and other Research Institutions / Offset Printing Presses / Color Scanners / Processors / Phototypesetters / Photographic Equipments / Photo Copies / Packaging Industries / Medical Equipments / X-Ray Machines E.C.G Machines / Monitors / MRI / CT Scans / Defence Installations / LPTs / HPTs / Broadcasting & Telecommunications / Lifts / Escalators and Elevators / Central Air -Conditioning Plants / Processing plants / Chemical Industrial / Textile Industries / CNC Machines / Laser Machines / Moulding Machines / Commercial Building and Complexes / Complete Hospital and Nursing Homes.



Servo Voltage Stabilizer Three Phase Air Cooled & Oil Cooled (Dimmer Type)





Parameters	Performance				
Capacity	5 KVA to 50 KVA (Single Phase)				
Capacity	10 KVA to 1500 KVA (Three Phase)				
	160v - 260 V, 140V - 270V (Single Phase)				
Input Voltage	300V - 450V, 240V - 270V (Three phase)				
	(other ranges available on specific order)				
Output Voltage	220V / 230V / 240V Single Phase adjustabl				
Output Voltage	330V / 400V / 415V Three Phase (adjustable)				
Regulation	+/- 1% or better.				
Supply Frequency	47 Hz- 53 Hz.				
Efficiency	better than 98%				
Effect of Load Power Factor	Nil				
Wave form Distortion	Nil				
Rate of Correction	Better than 36V / sec. in air cooled models				
Nate of Correction	Better than 30V / sec. in Oil cooled Models				
Duty Cycle	100%continuous				
Response Time	Less than 100 ms				
Cooling	Air / Oil as per requirement				
Over Load Capability	Upto 200% Momentarily				
No Load Losses	Less than 0.8% over entire range				
Suitability	Suitable for 3Ph.unbalanced / Balanced				
Suitability	supply& unbalanced / balanced load				
Mounting	On Wheels				
Earthing	Earthing Terminals Provided				
L.	ı				

Technical Specificatio





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Servo Voltage Stabilizer Single Phase Oil Cooled (Linear Type)

Automatic Voltage Stabilizers hold its potential forunits having either L. T. Supply or Low capacity H.T. Connection. The same can be manufactured for Balanced Supply for unbalanced Loads or Unbalanced Supply for Unbalanced Loads. The range of input supply for which the stabilizer is designed depends upon the voltage condition at the supply point. However some standard ranges for L. T. Stabilizer are as under:

Technical Specification

Parameters	Performance			
Capacity	100 KVA to 2000KVA			
Input Voltage	300-460V, 340-460V, 360-460V (Phase to Phase)			
Output Voltage	400V /415Volts±1% (Phase to Phase)			
Туре	Suitable for: Balanced Load & Balanced Supply			
Application	Indoor/ Outdoor Type (Optional)			
Phase	3-Ph, 4Wires			
Frequency	50 Hz			
Response Time	Fraction of Second			
Speed of Correction	8-16 V/Sec			
Mode of Operation	Automatic/ Manual/ hand Control			
Suitability	Suitable for all Power Factors			
Wave Form Distortion	Nil			
Duty Cycle	100% Continuous			
Efficiency	98%			
Cooling	ONAN (Oil Natural Air Natural)			
IS Standard	IS : 2026			
Transformer Oil	IS : 335			
Operating Temp	0°C - 50°C Above Ambient			
Laminations Used	CRGO Laminations - M4 Grade			
Copper Used	99.9% Pure Electrolytic Grade			
Carbon Rollers Used	High Grade Graphite Rollers			



Electrical Panels



Segments _

Main LT Panel / PCC (Power Control Center) / Auto/Mannual Synchronising / Load Sharing Panels AMF Panels / MCC (Motor Control Center) / Control and Relay Panel / Control Desk & Mimic Panels Intelligent Switchboards with Computer & BMS Interface / Capacitor Panels / Feeder Pillar / Meter Board / Main Distribution Board (MDB) / Bus Ducts & Rising Mains

Salient Features_

- Design tested at CPRI for short circuit & temperature rise as per IS/IEC Standards.
- One of rthe first to get designs type tested at 100KA STC with Switchgare.
- 4000 A Panels successfully tested at CPRI for TR,STC, EPC,IP-54, C&CD as per IS standards.
- Form 1/2/3a/3b/4a/4b design, in DOP IP 54.
- Computer Aided Design (CAD) Systems.
- Panel enclouser degree of protection IP 54, IP 55 & IP 65.
- Anti corrosion treatment.
- Non hygroscopic SMC bus bar supports or best mechanical & electrical strenghts for fault current withstand.
- Bus bars and interlinks are insulated with heat shrinkable PVC Sleeves.
- Provision for future expansion for both sides.
- All live parts are shrouded with polycarbonate sheet.



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