UTL

TRUST
SINCE - 1996

USER CONFIGURABLE

ONLINE UPS



Available in: 1-120kVA

ISO 9001 : 2015 ISO 14001 : 2015 CE RoHS compliant

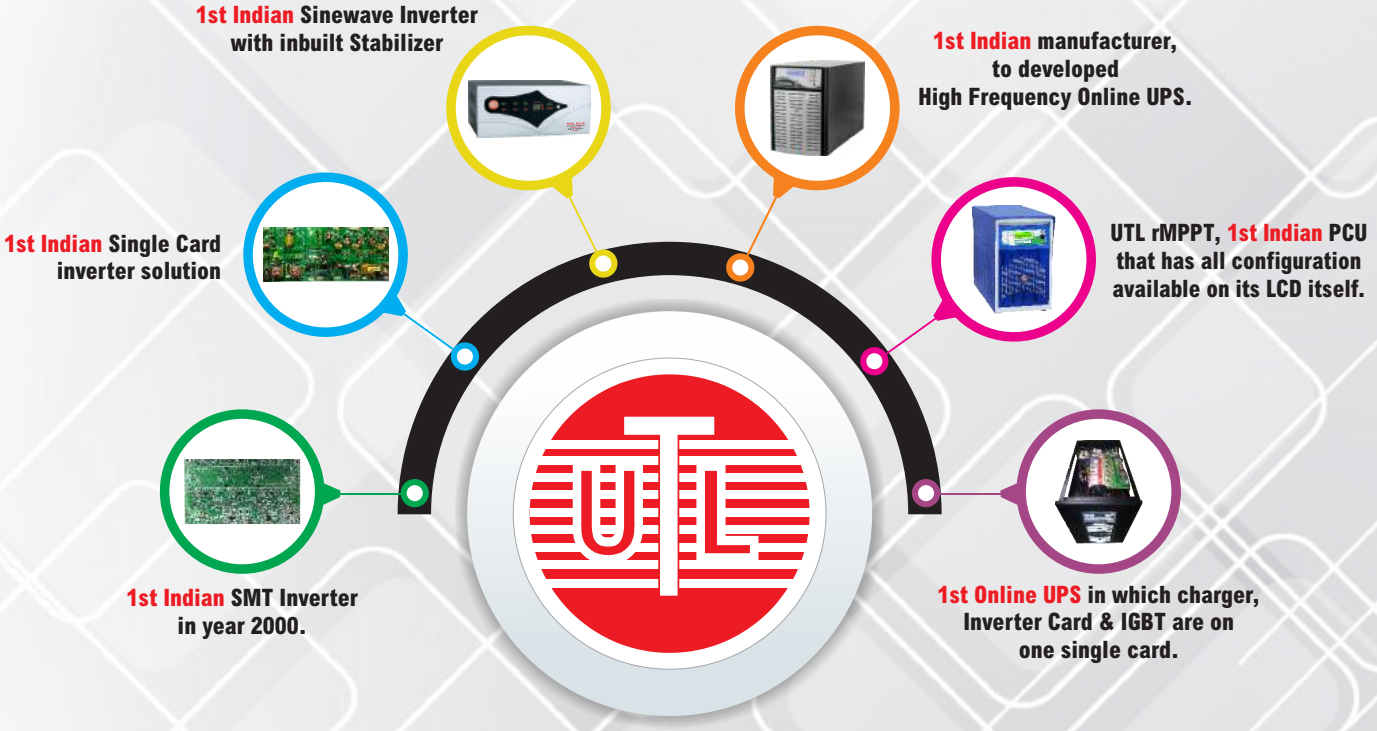
Rev-09



ABOUT UTL

UTL was founded in the year 1996 by 2 proficient engineers **Mr Yogesh Dua** and **Mr Pawan Garg**. UTL is one of the leading brand in power back-up and power generation in India. UTL offers wide range of quality products, has 4 manufacturing units, strong network of distributors and dealers across the globe and highly motivated workforce. We are offering excellent R&D services through the team of more than 60 R&D professionals and exporting R&D services & UL Certified products to various countries including USA. As the company values long term relationship, our stakeholders and even customers have very long association with UTL.

Some remarkable milestones covered by UTL are...





UTL in 2020-2021

- **4** Manufacturing Units
- **25** Years Old Brand
- **60+** Strong R&D Team
- **120** kVA- We made upto 120kVA Capacity
- **2000+** Associated Man Power
- **1100+** Per Day Production Capacity
- **10000+** Dealers in INDIA
- **10000000+** Satisfied UTL Consumers
- **4.0 Bn** UTL Turnover

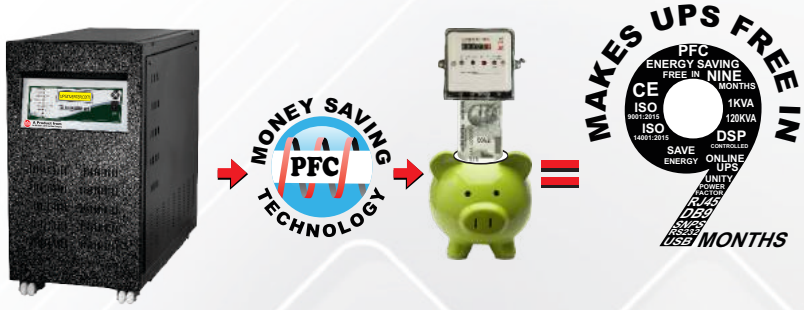
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ALFA PFC ONLINE UPS

(Half Electricity Consuming)

1 Phase in - 1 Phase out



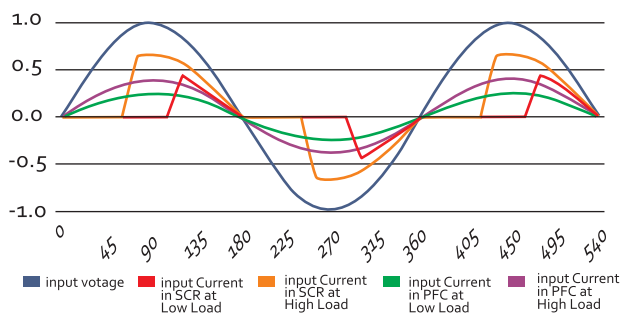
Available in
1-10kVA

In comparison to an SCR based UPS, Its phenomenal saving is more than 4KWH per hour, which is 40 Units a day for 10 hours of work that delivers a saving of 12000 units per year. You save a whooping Rs 60,000 per year. This makes the UTL UPS almost 'Free' in just a year, while its continues to more savings for the years to come.

FEATURES

- **LCD Display.**
- **Active Power Factor Correction.**
- **Rs232 Communication.**
- **Inbuilt Galvanic Isolation.**
- **Pure Sinewave Output.**
- **User Configurable.**

Current wave forms for SCR and PFC option



Alfa PFC Online UPS

Half Electricity Consuming (1 Phase in - 1 Phase out)

TECHNICAL SPECIFICATION

INPUT								
Power Rating	kVA	1	2	3	5	6	7.5	10
DC Voltage	V	96			120 / 180	180		
AC Voltage Range	V	145 to 280			170 to 280			
Frequency	Hz	50±3						
Input Power Factor		0.95 @ up tp 120VDC, 0.84 @ 180VDC						
Charge Topology		BUCK - IGBT						
Electrical Connection	Input	2.5 mm²	4 mm²	6 mm²	6 mm²	10 mm²	12 mm²	16 mm²
	Output	1.5 mm²	2.5 mm²	2.5 mm²	4 mm²	6 mm²	6 mm²	8 mm²
	Batt. 96V	4 mm²	4 mm²	10 mm²	NA	NA	NA	
	Batt. 120V	NA	NA	NA	12 mm²	NA	NA	
	Batt. 180V	NA	NA	NA	6 mm²	10 mm²	10 mm²	
	Earth	4 mm²	6 mm²	10 mm²	10 mm²	12/16 mm²	12/16 mm²	
OUTPUT								
Load Current	A	3.5	7.0	10.4	17.3	20.85	26.0	34.7
Voltage	V	220/230/240						
Voltage Regulation	%	±1						
Frequency (Free Running)	Hz	50±0.05						
Frequency Sink Mode	Hz	47.5 - 52.5						
Wave Form		Pure Sine Wave						
Voltage Harmonic	%	<3 Liner Load						
Over Load Capacity	%	100-110 : 10min 150 - 200 : 10 sec. 110 - 125 : 2min 200 - 300 : 1sec 125 - 150 : 1min 300 - 400 : 250ms				100-110 : 10min 150 - 200 : 2 sec. 110 - 120 : 2min 200 - 300 : 1sec 120 - 150 : 30Sec 300 - 400 : 250ms		
Crest Factor		3:1						
Configurable Parameter						**Default**		
Input Low Cut	V	145-200				145/160/170		
Input High Cut	V	260-280				280		
Output Voltage	V	220-240				230		
Output Low Cut	V	160-200				185		
Output High Cut	V	240-260				260		
Charging Current	A	0.7-9 / 0.7-15				4.2		
AUDIBLE WARNING								
Battery Back-up Ending		Intermittent						
Over Load		Continuous						
DISPLAY								
LED		UPS ON # Battery High/Low # Overload # O/P High/Low # Charging ON # Mains Low/High, Bypass, Fault/Overheat.						
Switches		Reset for System ON/OFF, UP, Down, Back, Enter (for LCD Configuration)						
PROTECTION								
		Output Overvoltage #Output undervoltage #Overload #Output Short Circuit #Battery Overvoltage #Battery undervoltage, Input Low/High.						
PARAMETER								
LCD Display		Input Voltage & Frequency, Output Voltage & Frequency, Load %, Charging Current, DC Voltage, UPS Status						
INTERFACE								
DB 9 (Optional)		RS 232						
OTHERS								
Battery Start		Standard						
Cabinet Wheels		NA			Standard			
Extended Battery Chg.		Optional						
Bypass	V	Auto Bypass By Relay			Default Rotary Switch			
Auto Bypass (Low-High Cut)		185 to 250			NA			
OVERALL								
Efficiency (AC-AC)	%	>85**(Full Load)						
Transfer Time (Mains to Batt.)	mS	0						
Operating Temperature	°C	0-45						
Humidity	%	5-95(Non-Condensed)						
Dimension	mm	538 x 285 x 427			610 x 285 x 540		625 x 334 x 585	
Weight	Kg	40	42		65	80	90	100

*Specification are subject to change without prior notice due to constant improvement in design & technology.

UTL

MARS ONLINE UPS

Isolation Based 3 Phase in - 1 Phase out



Available in
5-20kVA

FEATURES

- DSPic based design Pure Sine Wave.
- Ethernet based monitoring(Optional).
- Robust Design-20years Product Life.
- High Efficiency & high Reliability.
- User Friendly Display.
- Available from 5KVA to 20KVA.
- Static Bypass / Hot Stanby*
- High Surge Capability (up to 300%) for starting Heavy Load.
- Tested as per IEC 61683 & IEC 60068-2 (1,2,14,30) standards.
- AC & DC Parameter Configurable from LCD.

Application

Hospital



School



Industries



Home



Petrol Pump



Bank



MARS ONLINE UPS

Isolation Based (3 Phase in - 1 Phase out)

TECHNICAL SPECIFICATION

INPUT						
Power Rating	5kVA	6kVA	7.5kVA	10kVA	15kVA	20kVA
DC Voltage	240V					
AC Voltage Range	400 ± 20% Three Phase four wire					
Frequency	50Hz ± 3Hz					
Power Factor	>0.92					
Charge Topology	Buck					
Connection Type	Terminal Block					
GRID CHARGING						
Switching Devices	IGBT					
Switching Freq.	16KHz					
Charger Topology	Buck					
OUTPUT						
Voltage	220V/230V/240V±1% (Selectable from LCD)			(Default 230V)		
Load Current Per Phase	17.4A	20.87A	26.08A	34.78A	52.17A	69.56A
Efficiency (AC-AC) Peak	>85°%			>90°%		
Frequency	50Hz(Default)					
Waveform	Pure Sine Wave					
Transient Response	<8 (10%~90% Liner Load)					
Voltage Harmonics	<3% Linear Load					
Overload Capacity	100 to 110%-10min., 110 to 120%-2min.; 120 to 150%-30sec; 150 to 200%-2sec; 200 to 300%-1sec.; 300 to 400%-250msec; >400%-20-30msec.					
Crest Factor	3:1					
Voltage Regulation	±1%					
Frequency Regulation	±0.05Hz					
Connection Type	Terminal Block					
AUDIBLE WARNING						
Alarm	Battery Low, Battery High, Overload, Mains Present.					
DISPLAY						
LED	#UPS ON #Mains Chg. #Overload #Output High/Low #Battery High/Low #Chg. Overheat # AC Input High/Low R,Y,B #Fault #Bypass (Optional)					
LCD (20x4)	#Input Voltage & Freq. R,Y,B #Output Voltage, Freq. & Load% #Battery Voltage #Charging Current, #Working Status.					
PROTECTIONS						
Parameters	#Output Overvoltage/Undervoltage, #Overload, #Output Shortcircuit, #Battery Overvoltage/Undervoltage, #Input Overvoltage/Undervoltage, Thermal					
COMMUNICATION & MANAGEMENT						
Remote Monitoring	Ethernet(Optional)					
MISCELLANEOUS						
Transfer Time	0msec					
Extended Battery Chg.	Optional					
Caster Wheels	Yes					
ENVIRONMENTAL						
Operating Environment	0-50°C					
Operating Relative Humidity	(5%-95%) Non-Condensed					
Storage Environment	0-75°C					
Storage Relative Humidity	0-95%					
Degree of Protection	IP20					
Dimension(L x W x H)Inch	32 x 16 x 28					
Weight (Kg)	88	90	105	128	140	155

*Specification are subject to change without prior notice due to constant improvement in design & technology.

UTL

MARS ONLINE UPS

Isolation Based 3 Phase in - 3 Phase out



Available in
5-15kVA

FEATURES

- DSPic based design Pure Sine Wave.
- Ethernet based monitoring(Optional).
- Thermal Protection.
- Robust Design-20years Product Life.
- Noiseless in Operation.
- High Efficiency & high Reliability.
- User Friendly Display.
- Available from 5KVA to 15KVA.
- High Surge Capability (up to 300%) for starting Heavy Load.
- Tested as per IEC 61683 & IEC 60068-2 (1,2,14,30) standards.
- AC & DC Parameter Configurable from LCD.

Application

Hospital



School



Industries



Home



Petrol Pump



Bank



MARS ONLINE UPS

Isolation Based (3 Phase in - 3 Phase out)

TECHNICAL SPECIFICATION

INPUT					
Power Rating	5kVA	6kVA	7.5kVA	10kVA	15kVA
DC Voltage	240V		360V		
AC Voltage Range	400 ± 20% Three Phase four wire				
Frequency	50Hz ± 3Hz				
Power Factor	>0.92				
Charge Topology	Buck				
Connection Type	Terminal Block				
GRID CHARGING					
Switching Devices	IGBT				
Switching Freq.	16KHz				
No. Of Charger Controller	One				
Charger Topology	Buck				
OUTPUT					
Voltage	380V/400V/415V±1% (3Phase - 4wire)				Default 400V (Phase to Phase)
Load Current Per Phase	5.8A	6.95A	8.7A	11.6A	17.4A
Efficiency (AC-AC) Peak	>85			>90	
Frequency	50Hz				
Waveform	Pure Sine Wave				
Transient Response	<8 (10%~90% Liner Load)				
Voltage Harmonics	<3% Linear Load				
Overload Capacity	100 to 110%-10min., 110 to 120%-2min.; 120 to 150%-30sec; 150 to 200%-2sec; 200 to 300%-1sec.; 300 to 400%-250msec; >400%-20-30msec.				
Crest Factor	3:1				
Voltage Regulation	±1%				
Frequency Regulation	±0.05Hz				
Connection Type	Terminal Block				
AUDIBLE WARNING					
Alarm	Battery Low, Battery High, Overload (R,Y,B), Mains Present (R,Y,B)				
DISPLAY					
LED	#UPS ON #Mains Chg. #Overload #Output High/Low R,Y,B #Battery High/Low #Chg. Overheat # AC Input High/Low R,Y,B #Fault #Bypass (Optional)				
LCD (20x4)	#Input Voltage & Freq. R,Y,B #Output Voltage, Freq. & Load% #Battery Voltage #Charging Current, #Working Status.				
PROTECTIONS					
Parameters	#Output Overvoltage/Undervoltage, #Overload, #Output Shortcircuit, #Battery Overvoltage/ Undervoltage, Input Overvoltage/Undervoltage				
COMMUNICATION & MANAGEMENT					
Remote Monitoring	Ethernet(Optional)				
MISCELLANEOUS					
Transfer Time	0msec				
Extended Battery Charging	Optional				
Caster Wheels	Yes				
ENVIRONMENTAL					
Operating Environment	0-50°C				
Operating Relative Humidity	(5%-95%) Non-Condensed				
Storage Environment	0-75°C				
Storage Relative Humidity	0-95%				
Degree Protection	IP20				
Dimension (LxWxH)Inch	32 x 16 x 28				
Weight (Kg)	88	90	105	128	140

*Specification are subject to change without prior notice due to constant improvement in design & technology.

UTL

STAR PFC UPS

3 Phase in - 1 Phase out



Available in
25-40kVA

FEATURES

- Advance DSPic Based
- Double Conversion Design
- Output inbuilt Isolation Transformer
- Durability
- High Performance
- Cost Efficient
- High Reliability
- Cold Start
- Short Circuit Protection
- Surge Protection

Application

Hospital



School



Industries



Home



Petrol Pump



Bank



STAR PFC UPS

3 Phase in - 1 Phase out

TECHNICAL SPECIFICATION

INPUT				
Power Rating	kVA	25	30	40
DC Voltage	V	360		
AC Voltage Range	V	400V±20% Three phase four wire		
Frequency	Hz	50 ± 3		
Input Power Factor	Lag	0.94		
Charge Topology		BUCK (IGBT Charger)		
Electrical Connection Type		Terminal Block		
OUTPUT				
Voltage	V	220/230/240 - 1Ø 2wire (Default 230V)		
Voltage Regulation	%	±1		
Frequency	Hz	50		
Frequency Regulation	Hz	±0.05		
Load Current	A	86.9	104.3	139
Wave Form		Pure Sine Wave		
Transient Response	%	<8(10%~90% (Linear Load)		
Voltage Harmonic	%	<3 (Linear Load)		
Over Load Capacity	%	100 to 110 : 10 minutes 110 to 120 : 2 minutes 120 to 150 : 30 sec.	150 to 200 : 1 sec. 200 to 300 : 50 msec. >300 : 20 msec.	
Crest Factor		3:1		
AUDIBLE WARNING				
Alarm		Battery Low, Battery High, Overload, Mains Present		
DISPLAY				
LED		UPS ON # Battery High/Low # Overload # Output Volt. High/Low # Mains High/Low R-Y-B, CHG. ON #		
LCD Display (20x4)		#Input Voltage & Freq. R,Y,B, # Batt. Voltage, Chg. Current, # Output Voltage/ Freq./ Load Percentage #Status Window		
PROTECTION				
# O/P Over Voltage/Under Voltage # Overload # I/P Low/High # O/P Short Circuit # Battery Over voltage/Under Voltage, Thermal				
OTHERS				
Cabinet Wheels		Yes		
Extended Battery Charging		Optional		
OVERALL				
Efficiency (AC-AC)	%	>85		
Transfer Time	mS	0		
Operating Environment	°C	0-50		
Operating Relative Humidity	%	5-95 (Non-Condensed)		
PHYSICAL				
Dimension	Inch	49 x 33 x 43		39 x 39 x 48
Weight	Kg	240	280	400

*Specification are subject to change without prior notice due to constant improvement in design & technology.

The Power.....

As and when you need it.



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