



Uninterrupted & Reliable Power back-up for critical applications



About Us

Founded in the year 1986, MICROTEK INTERNATIONAL PVT. LTD. is the country's Largest Power Products manufacturer having products like LINE INTERACTIVE UPS, ONLINE UPS, AUTOMATIC VOLTAGE STABILIZER, DIGITAL & INTELLI PURE SINEWAVE JUMBO UPS, UPS EB, UPS E²+, HYBRID UPS 24×7, SOLAR UPS, SOLAR PANEL & SOLAR SMU. MICROTEK has set up State-of-the-art automatic Manufacturing Plants equipped with Hi-Tech Machines, like SMT, ICT and Automatic Assembly Lines to name a few.

A Master in its Chosen Field

As a leader in this industry, we have always worked to develop advanced technology and innovative methods. Our expert teams are selected specifically for each client, and they are highly trained, using ingenuity to solve problems creatively. We let our quality of work and commitment for the total customer satisfaction be our slogan.

Since the inception of Microtek in the year 1986, we have witnessed a tremendous growth in all the verticals of our operations making us an unchallenged leader in this industry. From technology to products range and from the man-power to the infrastructure, Microtek has achieved and excelled in every sphere of its operations.



A modern interior space featuring a high, vaulted wooden ceiling with exposed beams. A stone wall is visible in the background, and a glass railing is in the foreground. The room is lit with warm, ambient lighting, including several glowing lanterns on the floor. A staircase with wooden steps and a glass railing is visible on the left side of the image.

MICROTEK

TECHNOLOGY WE LIVE

E2 SERIES

ONLINE UPS

1KVA / 24V-IB
INTERNAL BATTERIES

1KVA / 36V
EXTERNAL BATTERIES

HIGH FREQUENCY DOUBLE CONVERSION
IGBT TECHNOLOGY BASED ONLINE UPS.



SALIENT FEATURES

- Inbuilt OVCD (Over Voltage Cut-Off Device) with Surge Protection.
- Smart LCD Display for Real-time information.
- EMI Noise Filter.
- Efficient Micro Controller based.
- Advanced PFC Technology.
- Robust Product-improves Power Quality with Reliability.
- External Charger upto 8 Amps. (Optional for 36V DC System).
- Static Bypass-improves Reliability.
- Alarm (Optional) for Mute Mode.
- SNMP Card (Optional) on demand.
- Isolation Transformer (Optional).
- Over Temperature Indication & Protection.
- Generator Compatible.
- Configurable Output Voltage settings.
- Output Frequency fixed at 50Hz or can be synchronized with Input Frequency.

MODEL	NM24EM1KK11-IB	NM36EM1KK11
CAPACITY	1KVA/800W	1KVA/800W
DC VOLTAGE SYSTEM	24VDC	36VDC
INPUT		
VOLTAGE RANGE	110VAC ± 5 % ~ 300VAC ± 5 %	
FREQUENCY RANGE	40Hz ~ 70Hz	
PHASE	SINGLE PHASE WITH GROUND	
POWER FACTOR	≥0.99 @ FULL LOAD	
OUTPUT		
OUTPUT VOLTAGE	200 / 208 / 220 / 230 / 240VAC	
AC VOLTAGE REGULATION	±1%(Battery Mode)	
FREQUENCY RANGE (BATTERY MODE)	50 Hz ± 0.25 Hz OR 60Hz ± 0.3 Hz	
CURRENT CREST RATIO	3:1	
HARMONIC DISTORTION	≤2% THD (Linear Load) ; 4% THD (Non-Linear Load)	
OVERLOAD CAPABILITY	105%~110%: UPS SHUTS DOWN AFTER 10 MINUTES AT BATTERY MODE OR TRANSFER TO BYPASS WHEN THE UTILITY IS NORMAL. 110%~130%: UPS SHUTS DOWN AFTER 1 MINUTE AT BATTERY MODE OR TRANSFER TO BYPASS WHEN THE UTILITY IS NORMAL. >130%: UPS SHUTS DOWN AFTER 3 SECONDS AT BATTERY MODE OR TRANSFER TO BYPASS WHEN THE UTILITY IS NORMAL.	
TRANSFER TIME	AC MODE TO BATTERY MODE: 0 / INVERTER TO BYPASS: <4 ms (Typical 2.5ms)	
WAVEFORM (BATTERY MODE)	PURE SINEWAVE	
EFFICIENCY		
EFFICIENCY (AC MODE / BATT. MODE)	88% / 83%	
BATTERY & CHARGER		
BATTERY TYPE / BATTERY NUMBERS	SMF 12V / 9AH X 2Nos. (In-Built Batteries)	SMF UPTO 65AH (External Batteries)
CHARGING CURRENT	1A	0.7A~6A [2A/4A/6A(MAX.) SELECTABLE VIA JUMPER SETTINGS
PHYSICAL		
DIMENSION LXWXH(MM)	282 X 145 X 220	282 X 145 X 220
NET WEIGHT(KGS.)	9.8KGS.	4.08KGS.
ENVIRONMENT		
OPERATING HUMIDITY / TEMP.	20-95% RH @ 0-40°C (Non-Condensing)	
NOISE LEVEL	LESS THAN 50 dBA @ 1 METER (WITH FAN SPEED CONTROL)	
STATUS INDICATIONS		
LED/LCD	LCD DISPLAY INDICATIONS	
MANAGEMENT		
SNMP (OPTIONAL)	POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER	

*Product specifications are subject to change without prior notice.

MAX+ SERIES

ONLINE UPS

1KVA / 2KVA / 3KVA

INTERNAL BATTERIES

1KVA / 2KVA / 3KVA

EXTERNAL BATTERIES

HIGH FREQUENCY DOUBLE CONVERSION
IGBT TECHNOLOGY BASED ONLINE UPS.



★ WARRANTY ★

2

Years on Electronics

1

Year on Battery

(For internal battery models)



SALIENT FEATURES

- Output Power Factor 0.9
- Inbuilt charger of 9.5 Amps.
- Inbuilt OVCD(Over Voltage Cut-Off Device) with Surge Protection.
- Efficient Micro Controller based.
- Robust Product-improves Power Quality with Reliability.
- 50Hz/60Hz Frequency Converter mode.
- Smart LCD Display for Real-Time information.
- EMI/RFI Noise Filter.
- External Charger Capacity expansion to 8 Amps.(Optional).
- Generator compatible.
- Programmable Power Management Outlets.
- Hot Stand-by feature available.
- Static Bypass-improves Reliability.
- Advanced PFC Technology/Battery Management.
- Alarm(Optional) for Mute Mode.
- SNMP Card(Optional) on demand.
- Isolation Transformer(Optional).
- Over Temperature Indication & Protection.
- Configurable Output Voltage Settings.
- Output Frequency fixed at 50Hz or can be synchronized with Input frequency.

MODEL	NM36MX1KK11/IB MODEL	NM72MX2KK11/IB MODEL	NM72MX3KK11/IB MODEL
CAPACITY	1KVA/900W	2KVA/1800W	3KVA/2700W
INPUT			
VOLTAGE RANGE	110VAC±5% ~ 300VAC±5%		
FREQUENCY RANGE	40Hz~70Hz		
PHASE	Single Phase with Ground		
INPUT POWER FACTOR	≥0.99 @ Full Load		
OUTPUT			
VOLTAGE RANGE	200/208/220/230/240VAC		
AC VOLTAGE REGULATION	±1%(Battery Mode)		
FREQUENCY RANGE (Battery Mode)	50Hz±0.25Hz or 60Hz±0.3Hz		
CURRENT CREST RATIO	3:1		
HARMONIC DISTORTION	≤2% THD(Linear Load); 4% THD(Non-Linear Load)		
OVERLOAD CAPABILITY	105%~110% : UPS shuts down after 10 minutes at battery mode or transfer to bypas when the utility is normal. 110%~130% : UPS shuts down after 1 minute at battery mode or transfer to bypas when the utility is normal. >130% : UPS shuts down after 3 seconds at battery mode or transfer to bypas when the utility is normal.		
TRANSFER TIME			
AC MODE TO BATTERY MODE	Zero		
INVERTER TO BYPASS	<4ms(Typical 2.5ms)		
WAVEFORM(BATTERY MODE)	Pure Sine Wave		
EFFICIENCY	85%~92%		
BATTERY			
DC VOLTAGE	36VDC/IB(3Battery 7AH inside)	72VDC/IB(6Battery 7AH inside)	72VDC/IB(6Battery 7AH inside)
TYPE AND NUMBERS	SMF/Lead Acid/Tubular depending on the capacity of the External Batteries		
CHARGE CURRENT	1.5A~9.5A		
CHARGING CURRENT(Adjustable)	2.0A/4.0A/6.0A/8.0A(Maximum) Selectable via LCD setting		
PHYSICAL			
DIMENSIONS PRODUCT(LxWxH)	397x145x220(in mm)	421x190x318(in mm)	421x190x318(in mm)
NET WEIGHT PRODUCT(KGS.)	7.8 Kgs./(IB-12.5Kgs.)	12.10 Kgs./(IB-25.8Kgs.)	12.52 Kgs./(IB-27.0Kgs.)
ENVIRONMENT			
OPERATING HUMIDITY	20-95% RH@ 0-40°C(Non-Condensing)		
NOISE LEVEL	Less than 50dBA@1Meter(With Fan Speed Control)		
LED/LCD INDICATION	LCD Indications		
MANAGEMENT			
SMART RS-232 OR USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix, MAC		
OPTIONAL SNMP	Power Management from SNMP Manager and Web Browser		

*Product specifications are subject to change without prior notice.

i **MAXX** SERIES

ONLINE UPS

TRANSFORMER BASED ONLINE UPS.

5.5KVA / 7.5KVA / 10KVA

16/18 BATTERY SYSTEM



SALIENT FEATURES

- DSP Technology with IGBT based inverter.
- Inbuilt OVCD(Over Voltage Cut-Off Device) with Surge Protection.
- Smart LCD Display for Real-time information.
- EMI/RFI Noise Filter.
- CVCF(Constant Voltage Constant Frequency) Operational without Battery.
- Conformal Coated PCB Assemblies to withstand harsh environment.
- External Charger capacity expansion to 4amps. (Optional) on demand.
- Hot Stand-by, Cold Start & RS-232/USB Port features available.
- Built-In Maintenance Bypass & Static Bypass Switch.
- Alarm for Mute Mode and SNMP Card(Optional).
- Over Temperature Indication & Protection.
- Configurable Output Voltage Settings.
- Output Frequency fixed at 50Hz or can be synchronized with Input frequency.
- Generator Compatible. Generator Capacity required for Stand-By Source should be 2.5 times of the UPS capacity.

MODEL	i-MAXX TRANSFORMER BASED ONLINE UPS		
CAPACITY	5.5KVA 4.4KW	7.5KVA 6.0KW	10.0KVA 8.0KW
DC VOLTAGE SYSTEM	DEFAULT : 192VDC, ADJUSTABLE : 216VDC		
PHASE	SINGLE PHASE WITH GROUND		
INPUT			
NOMINAL VOLTAGE	208V AC / 220V AC / 230VAC		
ACCEPTABLE VOLTAGE RANGE	165~285V AC		
FREQUENCY RANGE	40Hz ~ 55Hz @50 Hz System		
OUTPUT			
NOMINAL VOLTAGE	208V AC / 220V AC / 230VAC		
AC VOLTAGE REGULATION	±1% (Battery Mode)		
FREQUENCY RANGE	Mains Mode(Synchronized Range) : 45Hz ~ 55Hz / Battery Mode: 50Hz 0.1Hz		
TRANSFER TIME			
AC TO DC MODE	Zero		
INVERTER TO BYPASS MODE	Zero		
BYPASS TO INVERTER MODE	<5ms		
WAVEFORM			
BATTERY MODE	Pure Sinewave		
EFFICIENCY			
AC MODE / BATTERY MODE	87% / 91%		
EXTERNAL BATTERY			
RECOMMENDED BATTERY TYPE	DEFAULT : VRLA / SMF Battery		
	Tublar Battery: OK(With Charger Cut-Off Voltage adjustable from LCD Display)		
BATTERY CHARGING AMP.	2/4 / 8 AMP. (Default : 8 AMP.)		
NO. OF BATTERIES	16 / 18 Batteries		
INDICATORS			
LCD DISPLAY	LOAD LEVEL, BATTERY LEVEL, AC MODE, BATTERY MODE, BYPASS MODE AND FAULT INDICATORS		
ALARMS	Battery Mode: Sounding every 4 Seconds Overload: Sounding twice every second	Low Battery: Sounding every second Fault: Continuously Sounding	
MANAGEMENT			
RS-232 / USB & OPTIONAL SNMP	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC		
PHYSICAL			
NET WEIGHT(Kgs.)	62.0 Kgs.	78.0 Kgs.	86.0 Kgs.
DIMENSIONS(LXWXH) mm	562 x 250 x 830		

*Product specifications are subject to change without prior notice.

*i*MAXX SERIES

ONLINE UPS

TRANSFORMER BASED ONLINE UPS.

10KVA / 15KVA / 20KVA

3PHASE IN~1PHASE OUT



SALIENT FEATURES

- DSP Technology with IGBT based inverter.
- Smart LCD Display for Real-time information.
- CVCF(Constant Voltage Constant Frequency) Operational without Battery.
- Adjustable Battery Numbers(29, 30,31 & 32 Numbers) in all 360V Models.
- Immune to Reverse Phase Sequence & no Neutral Operation.
- Hot Stand-by, Cold Start features available.
- Built-In Maintenance Bypass & Static Bypass Switches.
- Configurable Output Voltage Settings.
- Input filter for Power Factor 0.9(Optional) available.
- Conformal Coated PCB Assemblies to withstand harsh environment.
- Inbuilt charger of 20 Amps., Parallel Redundancy & Battery Reverse Protection in all 360V Models.
- Alarm for Mute Mode and SNMP Card(Optional).
- Over Temperature Indication & Protection.
- Output Frequency fixed at 50Hz or can be synchronized with Input frequency.
- Generator Compatible. Generator Capacity required for Stand-By Source should be 2.5 times of the UPS capacity.
- RS-232 & USB Port available in all models. RS-485 Port only available in 360 V models.

MODEL				i-MAXX TRANSFORMER BASED ONLINE UPS			
CAPACITY		10KVA / 8KW		15KVA / 12KW		20KVA / 16KW	
DC VOLTAGE SYSTEM		192VDC		DEFAULT: 360VDC, ADJUSTABLE: 348~384VDC			
PHASE		3 PHASE IN ~ 1 PHASE OUT					
INPUT							
NOMINAL VOLTAGE		3 X 360V/380VAC 400VAC (3Ph+N+G)		3 X 380VAC/400VAC/415VAC (3P h+N+G)			
ACCEPTABLE VOLTAGE RANGE		286VAC ~ 493VAC		165VAC ~ 280VAC (Ph-N) / 285VAC ~ 485VAC (P h-Ph)			
FREQUENCY RANGE		40Hz~55Hz		50Hz/60Hz±10%			
OUTPUT							
NOMINAL VOLTAGE		DEFAULT = 230VAC ± 1%, 208VAC / 220VAC / 230VAC (A djustable)					
WAVE FORM		PURE SINEWAVE					
FREQ. RANGE SYNCHRONIZED MAINS MODE		45Hz~55Hz		50Hz ± 1%			
FREQ. RANGE BATTERY MODE		50Hz ± 0.1Hz		50Hz ± 0.1Hz			
POWER FACTOR / CREST FACTOR		0.8 / 3:1					
TOTAL HARMONIC DISTORTION		≤3% (Linear Load); ≤5% (Non-Linear Load)		≤2% (Linear Load); ≤5% (Non-Linear Load)			
TRANSFER TIME (AC TO DC)		0ms					
TRANSFER TIME (INVERTER TO BYPASS)		0ms					
OVERLOAD CAPABILITY		110% FOR 30 MIN, 125% FOR 5 MIN & 150% FOR 1 S ec		110% FOR 10 MIN; 150% FOR 60 S ec; >160% FOR 200 ms			
STATIC BYPASS							
OVERLOAD / SHORT-CIRCUIT CAPABILITY		150% FOR 1 HOUR ; 180% FOR 30 S ec ; >200% FOR 200 ms					
CONNECTION TYPE / INPUT VOLTAGE RANGE		HARDWIRE 3-WIRE (1Ph+N+G) / 220VAC					
EFFICIENCY							
OVERALL EFFICIENCY (AC MODE)		83%		≥88%		≥88%	
EFFICIENCY (BATTERY MODE)		92%		90%		90%	
BATTERY & CHARGER							
BATTERY TYPE		LEAD ACID/TUBULAR/SMF					
BATTERY NUMBERS		16Nos.		DEFAULT: 30Nos. (Adjustable 29, 30, 31 & 32 N umbers)			
CHARGING CURRENT		DEFAULT 8A, 2A/4A/8A (ADJUSTABLE)		DEFAULT: 5A, MAXIMUM = CAPACITY(KW) x(1-% LOAD) / BATTERY VOLTAGE			
PHYSICAL							
DIMENSION LXWXH(MM)/NET WEIGHT(Kgs.)		562X300X830/115KGS.		656X405X817/120KGS.		656X405X817/145KGS.	
ENVIRONMENT							
OPERATING TEMP./HUMIDITY/NOISE LEVEL		TEMP.: 0~55°C / HUMIDITY: 0~90% (N on-Condensing) / LESS THAN 60 dBA@1 METER					
MANAGEMENT							
USB AND MODBUS RS-232/RS485		SUPPORTS WINDOWS® 2000/2003/XP/VISTA/2008/7/8/10, LINUX AND MAC					
DRY CONTACTS / SNMP (OPTIONAL)		10KVA MODEL: 5 SIGNALS: AC FAILURE, LOW BATTERY, UPS ALARM, BYPASS AND UPS FAULT/ POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER (O ptional) 15/20KVA MODELS: 6 OUTPUTS AND 2 INPUTS/POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER (O ptional)					

i **MAXX** SERIES

ONLINE UPS

TRANSFORMER BASED ONLINE UPS.

10KVA / 20KVA / 30KVA

3PHASE IN~3PHASE OUT



SALIENT FEATURES

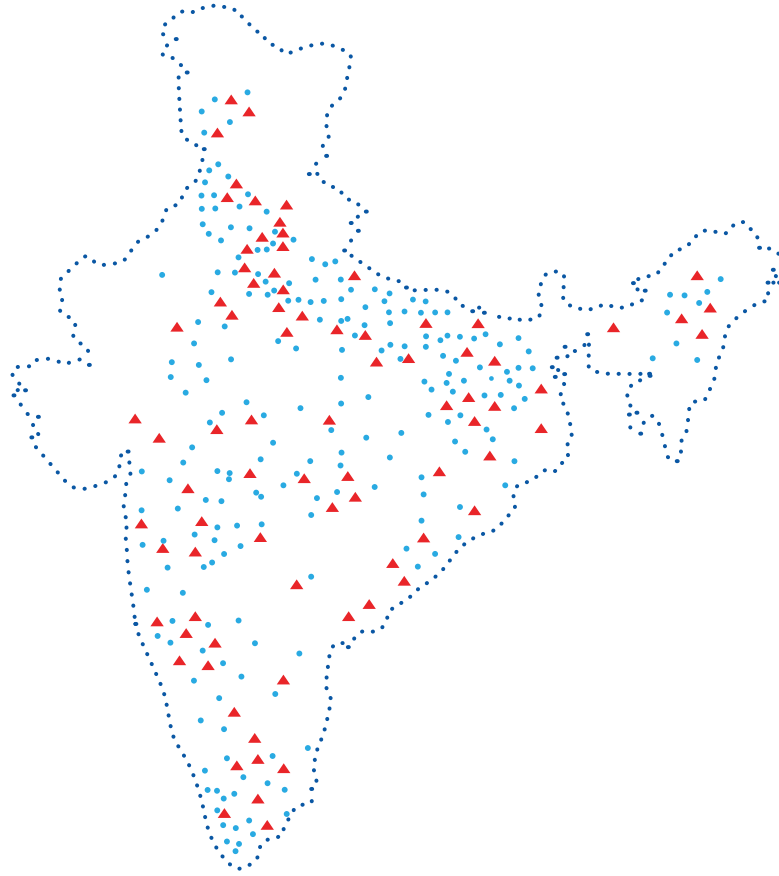
- DSP Technology with IGBT based inverter.
- Smart LCD Display for Real-time information.
- CVCF(Constant Voltage Constant Frequency) Operational without Battery.
- Adjustable Battery Numbers(29, 30,31 & 32 Numbers) in all 360V Models.
- Immune to Reverse Phase Sequence & no Neutral Operation.
- Hot Stand-by, Cold Start features available.
- Built-In Maintenance Bypass & Static Bypass Switches.
- Configurable Output Voltage Settings.
- Input filter for Power Factor 0.9(Optional) available.
- Conformal Coated PCB Assemblies to withstand harsh environment.
- Inbuilt charger of 20 Amps., Parallel Redundancy & Battery Reverse Protection in all 360V Models.
- Alarm for Mute Mode and SNMP Card(Optional).
- Over Temperature Indication & Protection.
- Output Frequency fixed at 50Hz or can be synchronized with Input frequency.
- Generator Compatible. Generator Capacity required for Stand-By Source should be 2.5 times of the UPS capacity.
- RS-232, USB Port and RS-485 Port available.

MODEL				i-MAXX TRANSFORMER BASED ONLINE UPS			
CAPACITY	10KVA / 8KW	20KVA / 16KW	30KVA / 24KW				
DC VOLTAGE SYSTEM				DEFAULT: 360VDC, ADJUSTABLE: 348~384VDC			
PHASE				3 PHASE IN ~ 3 PHASE OUT			
INPUT							
NOMINAL VOLTAGE		3 X 380VAC/400VAC(3Ph+N)					
ACCEPTABLE VOLTAGE RANGE		285VAC ~ 485VAC(Ph-Ph)					
FREQUENCY RANGE		50Hz/60Hz ±10%					
OUTPUT							
NOMINAL VOLTAGE		3 X 380VAC/400VAC ±1%(3P h+N), 415VAC(ADJUSTABLE)					
WAVE FORM		PURE SINEWAVE					
FREQ. RANGE SYNCHRONIZED MAINS MODE		50Hz ± 1%					
FREQ. RANGE BATTERY MODE		50Hz ± 0.1HZ					
POWER FACTOR / CREST FACTOR		0.8 / 3:1					
TOTAL HARMONIC DISTORTION		≤2% (Linear Load); ≤5% (Non-Linear Load)					
TRANSFER TIME (AC TO DC)		0ms					
TRANSFER TIME (INVERTER TO BYPASS)		0ms					
OVERLOAD CAPABILITY		110% FOR 10MIN; 150% FOR 60SEC; >160% FOR 200 ms					
STATIC BYPASS							
OVERLOAD / SHORT-CIRCUIT CAPABILITY		150% FOR 1HOUR ; 180% FOR 30SEC ; >200% FOR 200 ms					
CONNECTION TYPE / INPUT VOLTAGE RANGE		SOLID STATE / 3X380VAC/400AC(3P h+N)					
EFFICIENCY							
OVERALL EFFICIENCY (AC MODE)		90%	91%	91%			
EFFICIENCY (BATTERY MODE)		89%	91%	93%			
BATTERY & CHARGER							
BATTERY TYPE		LEAD ACID/TUBULAR/SMF / DEFAULT: 30N os.(Adjustable 29, 30, 31 & 32 N umbers)					
CHARGING CURRENT		DEFAULT: 5A, MAXIMUM = CAPACITY(KW) X (1-% Load) / BATTERY VOLTAGE			DEFAULT: 5A, MAX. = 20A		
PHYSICAL							
DIMENSION LXWXH(MM) / NET WEIGHT(Kgs.)		656X405X817 / 118Kgs.	656X405X941/179Kgs.	821X432X1159 / 241Kgs.			
ENVIRONMENT							
OPERATING TEMP/HUMIDITY/NOISE LEVEL		TEMP.: 0~55°C / HUMIDITY: 0~90% (N on-Condensing) / LESS THAN 60 dBA@1 METER					
MANAGEMENT							
USB AND MODBUS RS-232/RS485		SUPPORTS WINDOWS® 2000/2003/XP/VISTA/2008/7/8/10, LINUX AND MAC					
DRY CONTACTS / SNMP (OPTIONAL)		6 OUTPUTS AND 2 INPUTS / POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER (Optional)					

*Product specifications are subject to change without prior notice.

SERVICE NETWORK

Microtek provides after sales service to its customers through its vast Authorised Service Network. Which includes its own Branch Offices or Service Centers all across the country



All India Customer Care Network

- ▲ 150 MICROTEK SERVICE CENTRES
- 355 MICROTEK SERVICE POINTS



LIVE A GOOD LIFE

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