

Extra Power, Enviro Power !!



Online UPS

1KVA to 200KVA

- ◉ Micro Processor Based IGBT Technology
- ◉ Modular Design
- ◉ APFC Charger Technology
- ◉ RS-232, SNMP Interface
- ◉ LCD Visualisation



Enviro Systems

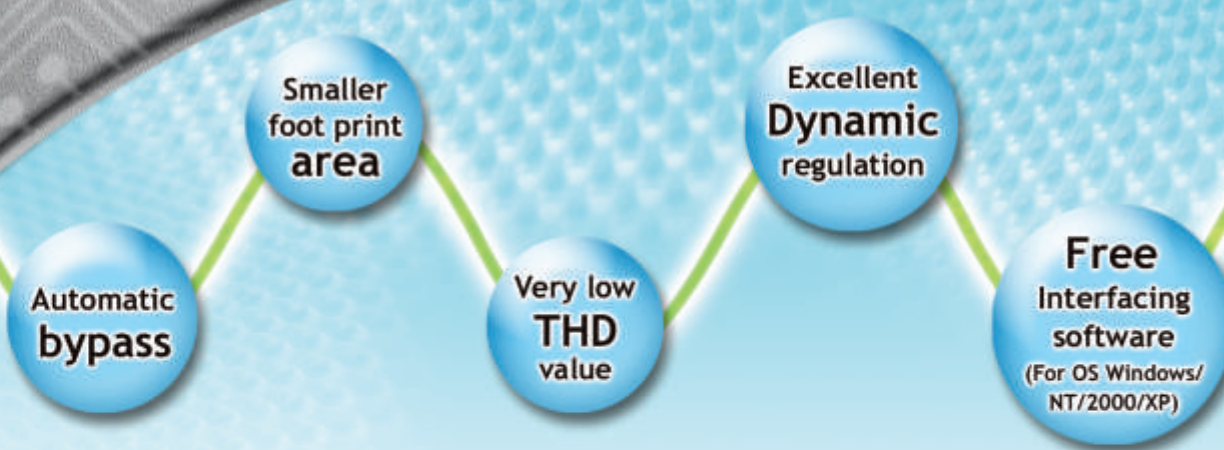
Online & Offline UPS

Servo Stabiliser

Industrial Inverter

Home Inverter

Lift Inverter



MicroPro -11

Single Phase Input - Single Phase Output

Rating KVA	1KVA	2 / 3 KVA	5 / 7.5 KVA
INPUT	Single Phase		
Nominal I/P Voltage	230 VAC (160-270 VAC)		
Input Power Factor	>= 0.98		
Battery Voltage	36 VDC	96 VDC	120 VDC
OUTPUT			
Nominal Voltage	230 VAC (220 / 240 VAC, selectable) 1Phase & N, ±1%		
Frequency	50 Hz (Synchronized with mains input, ±0.1% on Battery mode)		
Waveform	Pure Sinewave		
Total Harmonic Distortion			
Linear load	<= 3%	<= 3%	<= 3%
Non-linear load	<= 5%	<= 5%	<= 5%
Crest Factor	Better than 3 : 1		
Dynamic Response	At 0 to 100% load change. The output shall remain within ±1% & recovers to 5 ms.		
Overload capacity (Mains)	110% for 10 minutes, 130% for 2 minutes., 15% for 60 secs.		
Overload capacity (Battery)	Above 110% load system shut down after 10 secs.		
Automatic Bypass	Solid state Static bypass		
AC to AC Efficiency	Upto 85%		
Duty cycle	Continuous		
ENVIRONMENTAL			
Acoustic Noise Level	<45 db	<50 db	<50 db
Ambient Temp	0 to 55 deg.		
Humidity	20 to 90% RH, Non condensing		
EMI / EMC	IEC 62040		
PHYSICAL			
Enclosure	IP-20		
Cooling	Forced air		
Dimensions(mm) : (WxDxH)	145 x 400 x 220	225 x 500 x 600	
Weight (Kg)	7.5	15	35
LED Indications	Mains On, Inverter On, Load On, Load On Bypass, Over Load, Over Voltage, Battery Low, Battery Bar Graph, DC Over, DC Under, Over Temp.		
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Output Load %, Battery Voltage, Battery Current, Fault Messages, Log File		
Communication Interface	RS 232 port for remote monitoring (Optional)		

R&D is a continuous process, the specifications are subjected to change without prior notice.

- USP's :
- Pure Sinewave True On-Line UPS
 - Double Conversion
 - Works at very extreme power conditions
 - High efficiency
 - Very Low running cost

Technology
upgradation
feasibility

Data logger
for power
management
as per IEC

Security
alarms &
safety



Rating KVA	7.5/10 KVA	20/30 KVA	50/60 KVA	80/100 KVA
INPUT	Three Phase + Neutral			
Nominal I/P Voltage	415 VAC (352-478 VAC)			
Input Power Factor	>= 0.95			
Battery Voltage	180 VDC	240 VDC	360 VDC	408 VDC
OUTPUT				
Nominal Voltage	230VAC (220 / 240 VAC, selectable) 1Phase & N, ±1%			
Frequency	50Hz (Synchronized with mains input, ± 0.1% on Battery mode)			
Waveform	Pure Sinewave			
Total Harmonic Distortion				
Linear load	<= 2%	<= 2%	<= 2%	<= 2%
Non-linear load	<= 5%	<= 5%	<= 5%	<= 5%
Crest Factor	Better than 3 : 1			
Dynamic Response	At 0 to 100% load change. The output shall remain within ±1% & recovers to 5 ms.			
Overload capacity (Mains)	120% for 10 mins. , 150% for 60 secs.			
Overload capacity (Battery)	Above 110% load system shut down after 10 secs.			
Automatic Bypass	Solid state Static bypass			
AC to AC Efficiency	upto 88%			
Duty cycle	Continuous			
ENVIRONMENTAL				
Acoustic Noise Level	<60db	<60db	<60db	<60db
Ambient Temp	0 to 55 deg.			
Humidity	20 to 90% RH, Non condensing			
EMI / EMC	IEC 62040			
PHYSICAL				
Enclosure	IP-20			
Cooling	Forced air			
Dimensions(mm) : (WxDxH)	260 x 570 x 700	260 x 650 x 700	350 x 575 x 800	
Weight (Kg)	39	55	87	110
LED Indications	Mains On, Inverter On, Load On, Load On Bypass, Over Load, Over Voltage, Battery Low, Battery Bar Graph, DC Over, DC Under, Over Temp			
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Output Load %, Battery Voltage, Battery Current, Fault Messages, Log File			
Communication Interface	RS 232 port for remote monitoring (Optional)			

DSPPro -31

Three Phase Input - Single Phase Output

- APFC technology based Charger using IGBT
- Input Power-Factor always near to unity
- GREEN POWER COMPATIBILITY
- Free from Input harmonics

Special Features

- ARM processor based technology
- APFC technology based charger using IGBT
- Input Power factor always near to unity
- Smaller in size but delivering max power
- Software Interface
- Catering to critical load
- Very high operating efficiency



ARMPro-33

Three Phase Input - Three Phase Output

Rating KVA	10, 20, 30, 40, 50, 75, 100, 140, 170, 200			
INPUT	Three Phase + Neutral			
Nominal I/P Voltage	415 VAC (352-478 VAC)			
Nominal Frequency	50 Hz (47 Hz to 53 Hz)			
Input Power Factor	>=0.95			
Battery Voltage	10, 20 KVA	30, 40, 50, 75 KVA	100, 140 KVA	170, 200 KVA
	240 VDC	324 VDC	360 VDC	408 VDC
OUTPUT				
Nominal Voltage	400 VAC, Three Phase & N (380 / 415 VAC, selectable)			
Frequency	50 Hz (Synchronized with mains input, ±0.1% on Battery mode)			
Waveform	Pure Sinewave			
Total Harmonic Distortion				
Linear load	<= 2%			
Non-linear load	<= 5%			
Crest Factor	Better than 3 : 1			
Dynamic Response	At 0 to 100% load change. The output shall remain within ±2% & recovers to 5 ms.			
Overload capacity (Mains)	125% for 10 mins., 150% for 60 secs. (Inverse time characteristics)			
Automatic Bypass	Solid state Static bypass			
AC to AC Efficiency	upto 85%		upto 88%	
Duty cycle	Continuous			
ENVIRONMENTAL				
Acoustic Noise Level	<60 db			
Ambient Temp	0 to 55 deg			
Humidity	20 to 90% RH, Non condensing			
EMI / EMC	IEC 62040			
PHYSICAL				
Enclosure	IP-20			
Cooling	Forced air			
LED Indications	Mains On, Inverter On, Load On, Load On Bypass, Over Load, Over Voltage, Battery Low, Battery Bar Graph, DC Over, DC Under, Over Temp.			
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Output Load %, Battery Voltage, Battery Current, Fault Messages, Log File			
Communication Interface	RS 232 port for remote monitoring (Optional)			

Prestigious Clients

- ITC Ltd.
- Praj Industries Ltd.
- House Of Laptops
- Excellize Software Pvt. Ltd.
- Sahyadri Hospital
- Asian School Of Management
- Micromatic Machine Tools Pvt. Ltd.
- Pune Institute Of Business Management
- Toll India Logistics Pvt. Ltd.
- & many more..



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