



LEXpower



TIGRA *plus* & *supreme* Series 1-10kVA

True On-line Double Conversion UPS

Voltage & Frequency Independent

Full Protection from:

- ✓ Power Failures
- ✓ Sags
- ✓ Power Surges
- ✓ Undervoltage
- ✓ Overvoltage
- ✓ Frequency Variation
- ✓ Switching Transients
- ✓ Line Noise
- ✓ Harmonic Distortion

INTELLIGENT POWER PROTECTION

Applications:

- IT Corporate sensitive application networks
- Servers, routers, switches, recording devices
- Telecommunication installations
- VoIP, IT security appliances
- Surveillance Installations (Cameras, records keeping equipment)
- Banking Systems
- Medical analyzers and diagnostic systems
- Manufacturing electromechanical control systems
- Production quality monitoring systems

TIGRA *plus* 1-3 kVA True On-line Double Conversion UPS



2 & 3kVA

1kVA

- True on Line double conversion technology
- User friendly and comprehensive LCD front panel design
- Full Automated production process for high reliability
- Small foot print for installations in space limited environments
- Wide input voltage range (120-276VAC)
- Precise Output voltage regulation
- Load Power factor 0.9
- High quality long life 12V-9Ah batteries
- Fast recharging time (< 4 hours) to 90% battery capacity
- ECO and Advanced ECO mode for higher efficiency
- Schuko receptacles for easy installation
- Emergency Power Off function (EPO)
- Pure Sinewave Output
- USB connectivity port included
- Slot ready for SNMP (option) adapter for monitoring & control
- Free Auto shutdown S/W for most popular operating systems
- Long run time models available

TIGRA *plus* RT 1-3 kVA True On-line Double Conversion UPS



1&2kVA



3kVA

- True on Line double conversion technology
- User friendly and comprehensive LCD front panel design
- Full Automated production process for high reliability
- Small foot print for installations in space limited environments
- Wide input voltage range (120-276VAC)
- Precise Output voltage regulation
- Load Power factor 0.9
- High quality long life 12V-7/9Ah batteries
- Fast recharging time (< 4 hours) to 90% battery capacity
- ECO and Advanced ECO mode for higher efficiency
- IEC320 receptacles
- Emergency Power Off function (EPO)
- Pure Sinewave Output
- USB connectivity port included
- Slot ready for SNMP (option) adapter for monitoring and control
- Free Auto shutdown S/W for most popular operating systems
- Long run time models available

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TIGRA *supreme* 6 & 10 kVA High Performance True On-line Double Conversion UPS



- True Online double-conversion technology
- 95% efficiency for low TCO (Online mode)
- ECO high efficiency (98%) mode
- Microprocessor control optimizes reliability
- N+X redundancy up to 3 units in parallel configuration
- High Input power factor (0.99)
- Output power factor (1.0)
- Wide Input voltage (110V – 300V)
- Output voltage regulation < 1%
- Converter mode available
- Generator compatible (THDi<3%)
- 20 batteries 12V-9Ah for longer back up
- Smart SNMP & Relay controllers (optional)
- Free auto shut down software
- LCD display for control and set up
- Fan Speed control for lowest acoustic voice
- Static & MBS with Static Bypass trigger (included)

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LEXPOWER TIGRA *plus* TOWER 1-3kVA ON-LINE DOUBLE CONVERSION UPS

TOWER MODEL	TIGRA <i>plus</i> 1K	TIGRA <i>plus</i> 1KL	TIGRA <i>plus</i> 2K	TIGRA <i>plus</i> 2KL	TIGRA <i>plus</i> 3K	TIGRA <i>plus</i> 3KL
CAPACITY	1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W	
INPUT						
Nominal Voltage	230V (120-276 VAC Voltage Variation)					
Frequency Range	45 Hz-55 Hz / 54 Hz-66 Hz					
Static ByPass Switch Voltage	230VAC ± 5%					
Static ByPass Switch Frequency	50Hz ± 1Hz					
Total Harmonic Distortion (THDi)	≤ 5%					
Power Factor	≥ 0.99 @ nominal voltage (100% load)					
OUTPUT						
Output Voltage	220/230/240 VAC ± 1%					
AC Voltage Regulation	± 1%					
Frequency	50 Hz or 60Hz ± 0.5 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤ 1 % THD (Linear Load) ≤ 5 % THD (Non-linear load)					
Overload	100% - 105% Constant, 105%-130% 60Sec (online mode) 10sec (battery mode), 130%-150% for 10sec, >150% for 300 ms					
Transfer Time	Zero (Line mode to Battery mode)					
	4 ms (Inverter Mode To Bypass Mode)					
EFFICIENCY						
On Line Mode	88%		90%		90%	
ECO Mode	97%		97%		97%	
BATTERY						
Battery Type	2 x 12V 9 AH	External Batteries	4 x 12V 9 AH	External Batteries	6 x 12V 9 AH	External Batteries
Typical Recharge Time	4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity	
Charging Current (max.)	1.5 A	6A	1.5 A	6A	1.5 A	6A
Charging Voltage	27.4 VDC ±1%		54.7 VDC ±1%		82.1 VDC ± 1%	
DISPLAY/ ALARM						
LCD Display	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator					
INTERFACE						
Communication	USB, SNMP optional, Dry Contact					
Emergency Power Off	YES					
Outlets (Schuko)	3 Schuko	2 Schuko	4 Schuko	2 Schuko	4 Schuko	2 Schuko
PHYSICAL						
Dimensions, W x H x D (mm)	144*228*356	102*328*346	190*327*399	102*327*390	190*327*399	102*327*390
Net Weight (kg)	9.2Kg	3.9Kg	17.4Kg	6.4Kg	22.7Kg	6.4Kg
ENVIRONMENT						
Humidity Temperature	<95 %, 0°C to 40°					
Noise Level	Variable - 40-50dBA @ 1 Meter - depending on load					
Altitude	up to 1000m without derating					
CERTIFICATE						
Certificates	CE, EN62040-1, EN62040-2, EN62040-3					

LEXPOWER TIGRA plus RACK/TOWER 1-3kVA ON-LINE DOUBLE CONVERSION UPS

RACK TOWER MODEL	TIGRA plus RT 1K	TIGRA plus RT 1KS	TIGRA plus RT 1.5K	TIGRA plus RT 1.5KS	TIGRA plus RT 2K	TIGRA plus RT 2KS	TIGRA plus RT 3K	TIGRA plus RT 3KS
CAPACITY	1000 VA / 900 W		1500VA / 1350W		2000 VA / 1800 W		3000 VA / 2700 W	
INPUT								
Nominal Voltage	230V (120-276 VAC Voltage Variation)							
Frequency Range	45 Hz-55 Hz / 54 Hz -66 Hz							
Static ByPass Switch Voltage	230VAC ±5%							
Static ByPass Switch Frequency	50Hz ±1Hz							
Total Harmonic Distortion (THDi)	≤ 5%							
Power Factor	≥ 0.99 @ nominal voltage (100% load)							
OUTPUT								
Output Voltage	220/230/240 VAC ± 1%							
AC Voltage Regulation	± 1%							
Frequency	50 Hz or 60Hz ± 0.5 Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	≤ 2 % THD (Linear Load); ≤ 5 % THD (Non-linear load)							
Overload	100%-105%: Constant, 105%-130% 60Sec line mode 10sec battery mode, 130%-150% 10sec, >150%300 ms							
Transfer Time	0 sec (Line to Battery & Inverter to Bypass Mode) / 1 ms (Inverter to Eco Mode) ≤ 10 ms (Eco to inverter Mode)							
EFFICIENCY								
On Line Mode / Battery Mode	88% / 83%		89% / 84%				92% / 88%	
ECO Mode	95%							
BATTERY								
Battery Type	3 x 12V - 7AH	N/A	4 x 12V- 7AH	N/A	4 x 12V - 9AH	N/A	6 x 12V - 9AH	N/A
Typical Recharge Time (to 90%)	3 hours	N/A	3 hours	N/A	3 hours	N/A	3 hours	N/A
Charging Current (max.)	1.5 A	6A	1.5 A	6A	1.5 A	6A	1.5 A	6A
Charging Voltage	43.05 VDC ± 1%		54.7 VDC ±1%		54.7 VDC ±1%		82.1 VDC ±1%	
DISPLAY/ ALARM								
LCD Display	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator							
INTERFACE								
Communication	USB, RS232, Relay In/Out, SNMP (optional)							
Emergency Power Off (EPO)	YES							
Outlets	8 x IEC320						8 x IEC320 + 1 x C16	
PHYSICAL								
Dimensions, W x H x D (mm)	438*86.5*435						438*86.5*604	
Net Weight (kg)	16.2Kg	8.4Kg	19.7Kg	9.3Kg	19.7Kg	9.3Kg	27.8Kg	13Kg
ENVIRONMENT								
Humidity / Temperature	<95 %, 0°C to 40°							
Noise Level	Less than 45dBA @ 1 Meter			Less than 50dBA @ 1 Meter				
Altitude	up to 1000m without derating							
CERTIFICATE								
Certificates	CE, EN62040-1, 62040-2, 62040-3							

LEXPOWER TIGRA *Supreme* TOWER 6 & 10kVA ON-LINE DOUBLE CONVERSION UPS

TOWER MODEL		TIGRA <i>supreme</i> - 6KT		TIGRA <i>supreme</i> - 10KT	
PHASE		1 phase in / 1 phase out			
CAPACITY		6000 VA / 6000 W		10000 VA / 10000 W	
INPUT					
Nominal Voltage		230V (120-276 VAC Voltage Variation)			
Input Voltage Range		120-276 VAC (50% load) 176-276 VAC (100% load)			
Frequency Range		40-70 Hz			
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)			
Input current distortion (THDi)		<3%		<3%	
OUTPUT					
Output Voltage		220/230/240VAC			
Voltage Regulation		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)		50 Hz or 60Hz ± 0.05 Hz			
Current Crest Ratio		3:1			
Harmonic Distortion		≤ 1 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Online & Battery Mode)		Pure Sinewave			
Parallel operation		Up to 3 units			
EFFICIENCY					
AC Mode		95%		95%	
Battery Mode		92%		92%	
ECO MODE		98%		98%	
BATTERY					
Standard Model	Battery Type	12V-9 Ah for 12min runtime at 70% load and 19min at 50% load		12V-9 Ah for 6min runtime at 70% load and 9.7min at 50% load	
	Number of internal batteries	20	20 in EBM (RT)	20	20 in EBM (RT)
	Typical Recharge Time	3 hours recover to 90% capacity			
	Charging Current (max.)	0-4A adjustable			
	Charging Voltage	276 VDC ±1%	276 VDC ±1%	276 VDC ±1%	276 VDC ±1%
INDICATORS					
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators			
ALARM					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload		Sounding twice every second			
Fault		Continuously sounding			
PHYSICAL					
Tower	Dimensions, W x H x D (mm)	220 x 589 x 492		220 x 589 x 492	
	Net Weight (kg)	63		71	
ENVIRONMENT					
Humidity		0-95% RH @ 0-50°C (non-condensing)		0-95% RH @ 0-40°C (non-condensing)	
Noise Level		Less than 45dBA @ 1 Meter		Less than 50dBA @ 1 Meter	
MANAGEMENT					
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC			
Optional SNMP		Power management from SNMP manager and web browser			
CERTIFICATE					
Certificates		CE, EN62040-1, EN62040-2. Manufactured according to EN62040-3			

LEXPOWER TIGRA Supreme RACK TOWER 6 & 10kVA ON-LINE DOUBLE CONVERSION UPS

RACK & TOWER MODEL		LEXPOWER TIGRA supreme 6KRT		LEXPOWER TIGRA supreme 10KRT	
PHASE		1 phase in / 1 phase out			
CAPACITY		6000 VA / 6000 W		10000 VA / 10000 W	
INPUT					
Nominal Voltage		230V (120-276 VAC Voltage Variation)			
Input Voltage Range		120-276 VAC (50% load) 176-276 VAC (100% load)			
Frequency Range		40-70 Hz			
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)			
OUTPUT					
Output Voltage		220/230/240VAC			
Voltage Regulation		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)		50 Hz or 60Hz ± 0.05 Hz			
Current Crest Ratio		3:1			
Harmonic Distortion		≤ 1 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
Parallel Operation		Up to 3 units			
EFFICIENCY					
AC Mode		95%		95%	
Battery Mode / ECO Mode		92% / 98%		92% / 98%	
Input current distortion		≤3%		≤3%	
BATTERY					
Standard Model	Battery Type	Back up time: 3.5-7 min with 12 V-9 Ah For longer back up depends on the number of EBMS			
	Number of batteries	20Bat in 3U cabinet (EBM)	Depends on the number of EBMS	20Bat in 3U cabinet (EBM)	Depends on the number of EBMS
	Fast Recharge Time	2 hours recover to 90% capacity (Standard model with 12A charger adjustable)			
	Charging Voltage	273 VDC ±1%	273 VDC ±1%	273 VDC ±1%	273 VDC ±1%
INDICATORS					
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators			
ALARM					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload / Fault		Sounding twice every second / Continuously sounding			
PHYSICAL					
Standard Model	Dimensions, W x H x D (mm)	438x86.2x573mm (UPS) 438x128x593 (Battery)	438x86.2x573mm (UPS) standard and L models have the same dimensions 438x128x593 (Battery)		
	Net Weight (kg)	62 with Battery	14 UPS	62 with Battery	16 UPS
ENVIRONMENT					
Humidity		0-95% RH @ 0-40°C (non-condensing)		0-95% RH @ 0-40°C (non-condensing)	
Noise Level		Less than 45dBA @ 1 Meter		Less than 50dBA @ 1 Meter	
MANAGEMENT					
Smart RS-232/USB/External slot		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated 1% / 100m
 Products specifications are subject to change without further notice

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