

 **TRIVENI** Electric

Your Own Source Of Power



# TRICORE SERIES

## Lift Inverter

from 6 to 60 Kva



Made in India



Life Uninterrupted

## KEY FEATURES OF LIFT INVERTER

- Rugged Design
- IGBT Based Technology
- Low Noise
- High MTFB
- Easily Upgradable
- High Efficiency
- After Sales service pan India
- Various models to choose from



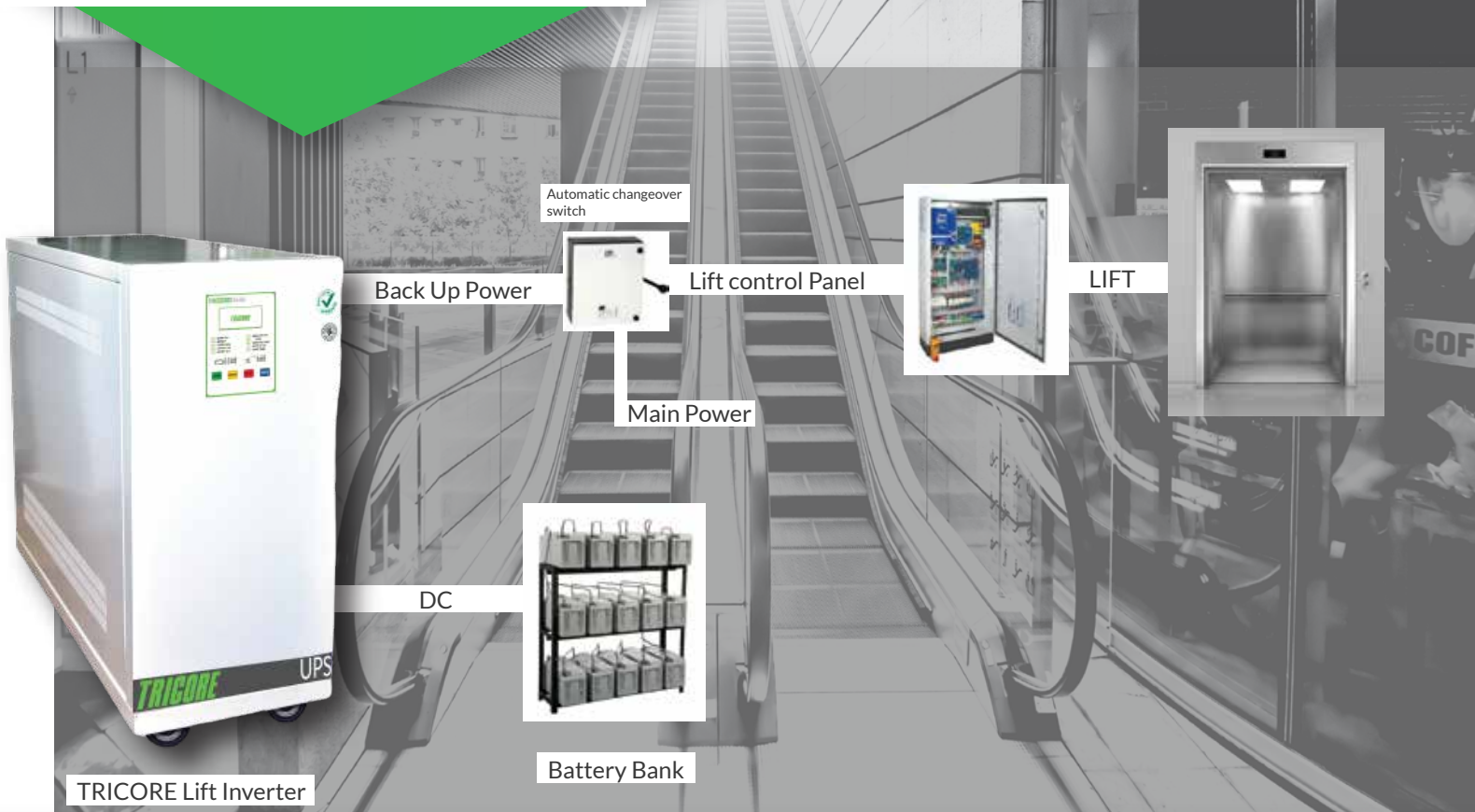
# TRICORE

**SERIES**

Sine Wave Inverter

## Range 6 to 60 Kva

### How does a Lift Inverter Work?



## Why Lift Inverter is better over a DG Set?

<b>TECHNICAL PARAMETER</b>	<b>D.G.SET</b>	<b>TRICORE LIFT INVERTER</b>
<i>TECHNOLOGY</i>	Electro-Mechanical	Electronic
<i>CAPACITY REQUIRED</i>	Almost 2.5 times of UPS	As per Actual Requirement
<i>NOISE LEVEL</i>	Very High	No Noise
<i>SPACE REQUIRED</i>	Large Floor Space	Compact
<i>AIR POLLUTION</i>	Smoke, High Pollution	No
<i>VIBRATION</i>	Very High	No
<i>INSTALLATION</i>	Essentially Ground Floor	No Limitation
<i>FOUNDATION*</i>	Essential	Not required
<i>MAINTENANCE</i>	Frequent Tuning Req'd.	Only Battery Maintenance
<i>SPARES REPLACEMENTS</i>	Duplication Possible	Only Genuine Spares
<i>LIFE</i>	Less Rotary Parts Calls For Mechanical Wear & Tear Converter	More Life Span – Static No Moving Parts
<i>ACCESSORIES*</i>	Canopy, Exhaust Arrangement AMF Panel, Anti Vibration Mounts, Silencer Required	No
<i>OPERATION</i>	Manual & Tedious	Fully automatic
<i>USAGE</i>	Has to be kept ON continuously During power cut Irrespective of whether the LIFT is being	Battery gets discharged only when LIFT IS WORKING in case
<i>NO-LOAD LOSSES</i>	Very High	Almost zero
<i>OUTPUT</i>	RPM Controlled, Poor Volt, Frequency Regulation	Regulated voltage, frequency, microcontroller used
<i>RELIABILITY / SAFETY</i>	Very Low	Highly Reliable & Safe
<i>EMERGENCY RESCUE DEVICE</i>	No	Available/optional

## Technical Specifications Of TRICORE Inverters

	Standard Rating		
	1KVA - 10 KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA
<b>INPUT</b>			
Voltage	230 V AC - 1 Ph	415 V AC - 3 Ph 4 Wire	415 V AC - 3 Ph 4 Wire
Operating Range	170 V - 265 V	345 V - 475 V	345 V - 475 V
Frequency	50 Hz		
Frequency Range	47 - 53 Hz		
Power Factor	> 0.8		> 0.92
<b>OUTPUT</b>			
Rating	1/2/3/5/7.5/10 KVA	7.5/10/15/20/25/30 KVA	15/20/25/30/40/45/50/60 75/80/90/100/120/150 KVA
Voltage	220 / 230 V AC		400 / 415 V AC
Voltage Regulation	± 1%		
Power Factor	0.8 lag to unity		
Crest Factor	3 : 1		
Frequency	50 / 60 Hz		
Freq. Regulation	± 0.1%		
Wave Form	True Sine Wave		
Harmonic Distortion	THD < 3%		
Overload Rating	150% for 30 Seconds		
Transient Respon.	± 5% for full load change		
Response Time	Recovery to ± 2% within 5 msec		
<b>DC Link</b>			
Nominal DC Volt.	2, 3 Kva : 48 - 144v	10,15 Kva : 240/360 v	15 Kva : 240/360 v
	5 Kva : 120/144/180v	20 Kva : 300/360 v	20 Kva : 300/360 v
	7.5,10Kva : 180 / 240v	25,30Kva : 360 v	25 Kva & Above : 360 v
DC Bus Volts Ripple	< 2%		
Battery Type	VRLA Sealed Maintenance Free (SMF) / Lead Acid Tubular (Flooded Type) (Niil - CD		
Isolation	DC Circuit Breaker		
<b>EFFICIENCY (Typical)</b>			
Inverter Efficiency	> 92%		
Overall Efficiency	> 85%		
<b>PROTECTIONS</b>			
Rectifier	I/P AC Over Voltage and Under Voltage		
	DC Over Voltage and DC Low		
	Battery Charging Over Current		
	I/P Single Phasing		
	I/P Phase Reversal		
Inverter	O/P Over Voltage / Under Voltage		
	O/P Overload		
	O/P Short Circuit		
	Over Temperature		

	Standard Rating		
	1 KVA - 10 KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA
<b>AUDIO ALARM</b>			
	Rectifier Trip		
	Overload		
	Mains Fail		
	Battery Low with Pre-alarm		
	System Trip		
<b>METERING</b>			
	Multifunction LCD Display to read the following parameters with user friendly Mimic Diagram		
	I/P Voltage & Current	1PH Parameters upto 30	
	I/P Frequency		
	Battery Voltage		
	Battery Charging / Discharging Current		
	OP Voltage		
	OP Current		
	OP Frequency		
<b>PHYSICAL</b>			
Dimensions			
Enclosure	IP 21		
Cable Entry	Bottom / As per requirement		
Colours	Siemen Gray		
<b>ENVIRONMENT</b>			
Operating Temp.	0 to 45°		
Storage	-10 to 70°		
Humidity	upto 96% RH (non-condensing)		
Cooling			
Noise	< 55 db	< 60 db	< 65 db
Altitude	< 3000 mtr. above mean sea level		
<b>OPTIONAL FEATURES</b>			
Enclosure	IP 42 / Industrial Grade		
Input Power Factor	0.99		
Operating Temperature	50° c		
ECO Mode with 98% Efficiency			
Auto Changeover o Bypass Supply (Static Bypass)			
Parallel Load Sharing / N+ 1 Configuration is available			
Remote Indicating Panel			
Computer Interface, Self Diagnostics, SNMP			
Output Frequency			
Auto / Manual Battery Test / Discharge Facility	Upto 40 Hz		
Individual Battery Monitoring System			
19" Rack Mounting Type Models available			
IEC Conformance on request			
CUSTOM BUILT / MIL-GRADE SYSTEMS			

# ***TRIGORE***

## **SERIES**



42/713 KOKAN VASAT, BEHIND  
DOMINOS PIZZA, NEAR SAMPADA  
HOSPITAL, CHICKENHAR, KALYAN  
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