



TOUGH.
FLEXIBLE.
POWERFUL.



Range Overview:

Trizen INV is a range of offline inverters. TRIZEN INV is the ideal solution for medium and large power critical applications (tertiary, hospital, industry, transport) where continuity of service, high quality power supply and reduced consumption are required. **TRIZEN INV is specially used in elevator and escalator operations.**

Trizen INV range is available from 1 kVA to 150 kVA in single phase and three phase configurations.

Application :

- Automation process equipments.
- Medical Sonography unit
- CT-MRI scanning unit
- UPS system protection
- CNC machines
- Discrete manufacturing, food and beverage
- Public infrastructure and transportation
- Malls, leisure, and service sector
- Elevators and Escalators**



	Standard Rating		
	1 KVA - 10 KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA
INPUT			
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
OUTPUT			
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		
DC Link			
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		
EFFICIENCY (Typical)			
Inverter Efficiency	> 92%		
Overall Efficiency	> 85%		
PROTECTIONS			
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		
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AUDIO ALARM			
	Rectifier Trip		
	Overload		
	Mains Fail		
	Battery Low with Pre-alarm		
	System Trip		
METERING			
	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		
PHYSICAL			
Dimensions			
Enclosure	IP 21		
Cable Entry	Bottom / As per requirement		
Colour	Siemen Gray		
ENVIRONMENT			
Operating Temp.	0 to 45 ^o		
Storage	-10 to 70 ^o		
Humidity	upto 96% RH (non-condensing)		
Cooling			
Noise	< 55 db	< 60 db	< 65 db
Altitude	< 3000 mtr. above mean sea level		
OPTIONAL FEATURES			
Enclosure	IP 42 / Industrial Grade		
Input Power Factor	0.99		
Operating Temperature	50 ^o 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			


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Your Own Source Of Power

POWER INVERTER | ONLINE UPS | BATTERIES | STABILIZER