

COMPANY PROFILE

PROTEKG POWER ELECTRONICS PVT LTD

Regd Office: "PROTEK HOUSE", Opp. Swaminarayan Mandir,
I.O.C. Road, Chandkheda, Ahmedabad, Gujarat, India, 382424
+91-9898564343, 9824072721, 8511001112, 9974757502

Mail: sales@protekg.in, sales.protekg@gmail.com

Visit: www.protekg.in

Works & Factory: 184/A-9, G.I.D.C. Shopping Centre, Behind
NIA Hospital, G.I.D.C. Naroda, Ahmedabad, Gujarat, 382330
+91-8511001113, 851101114, 8511001115

Our Presence:

- Surat •Rajkot •Vadodara •Mehsana •Palanpur •Anand
- Ankleshwar •Navsari •Bhilwara •Mumbai •Delhi •Pune
- Jalgaon •Bhopal •Indore •Raipur •Bilaspur •Kanpur
- Lucknow



PROTEKG POWER ELECTRONICS PVT LTD

(Also "PROTEK ENTERPRISES")

INTRODUCTION

- **ProtekG** has been a prominent name in the power conditioning sector since the company's inception in 1996.
- The company's main aim has always been to serve customers by providing excellent and reliable power conditioning solutions.
- An original and innovative approach to manufacturing has led us to specialize in a modular and highly diversified range of products including Servo Voltage Stabilizers, Online UPS, Power Distribution Transformers, Isolation Transformers.
- **ProtekG** has the distinction of achieving ISO 9001:2015 and ISO 14001:2016 certifications.
- Our complete range of products adheres to the highest quality standards through rigorous quality tests which include Insulation Resistance Test, Di-Electric Test and Insulation Oil Test etc. These tests are administered in a well equipped Quality Testing Unit established solely for this purpose.
- Since 1996, our customer base has expanded vastly to include loyal customers across the country.
- Our extensive client list is an acknowledgement of the immense trust our clients place in our products and service.
- We are highly determined to enrich the lives of our customers by providing them the highest quality power conditioning products. This aim shall continue to drive us as we constantly gear up to evolve into a bigger, vibrant and stronger company from within.
- Thank you for choosing **ProtekG**.

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COMPLETE RANGE OF PRODUCTS :

1. SERVO VOLTAGE STABILIZERS
2. ONLINE UPS SYSTEM
3. POWER DISTRIBUTION TRANSFORMERS
4. ULTRA ISOLATION TRANSFORMERS
5. STEP UP & STEP DOWN TRANSFORMERS
6. HOT STANDBY SWITCH
7. CONSTANT VOLTAGE TRANSFORMERS (CVT)
8. MANUAL TRANSFORMER FOR DJ SOUND SYSTEMS

INDUSTRIES WE SERVE :



MANUFACTURING INDUSTRIES



MALLS & SHOWROOMS



CORPORATE HOUSES



HOSPITALS



SCHOOLS



RESIDENTIAL HOUSES & BUNGLOWS

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OUR HONOURED CLIENTS



AIR COOLED SERVO VOLTAGE STABILIZERS



TECHNICAL SPECIFICATIONS

Capacity	5 kVA - 75 kVA
Input Voltage Range Models	170-270 / 140-300 / 100-300 V AC (1-Phase) 340-480 / 300-480 / 250-500 / 150-500 (3-Phase)
Output Voltage	230 +/- 1% VAC (1-Phase) 415 +/- 1% VAC (3-Phase)
Input Frequency	47-53 Hz
Correction Speed	75 V/Sec
Effect Of Power Factor	Nil
Control and Monitoring	<ol style="list-style-type: none"> 1. Micro-Controller & DSP based Electronic Card with inbuilt LCD display 2. Input L/L&L/N Voltage monitoring 3. Output L/L&L/N Voltage monitoring 4. Load current Phase wise monitoring 5. Input Line Indication
Waveform Distortion	As per input waveform
Efficiency	> 98%
Cabinet Colour	Siemens Gray
Servo Motor Drive	Rugged AC step synchronous motor
Nature Of Cooling	Natural Air Cooled
Protections	<ol style="list-style-type: none"> 1. Electronic over & under voltage trip with time delay for input & output 2. Electronic overload protection and short circuit protection through MCB 3. Surge Arrester(OPTIONAL) 4. Phase reversal cut off 5. Single phase prevention cut off 6. Neutral failure protection 7. Earth neutral voltage cut off protection
Output Panel	Terminated with suitable Busbar
Enclosure	Cubicle made out of 10 SWG CRCA sheet
Noise Level	< 55 DB at a distance of 1 Mtr

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OIL COOLED SERVO VOLTAGE STABILIZERS

TECHNICAL SPECIFICATIONS

Capacity	30 kVA - 3000 kVA
Input Voltage Range Models	340-480 / 300-480 / 250-500 / 150-500 (3-Phase)
Output Voltage	415 +/- 1% VAC (3-Phase)
Input Frequency	47-53 Hz
Correction Speed	75 V/Sec
Effect Of Power Factor	Nil
Control and Monitoring	<ol style="list-style-type: none">1. Micro-Controller & DSP based Electronic Card with inbuilt LCD display2. Input L/L & L/N Voltage monitoring3. Output L/L & L/N Voltage monitoring4. Load current Phase wise monitoring5. Input Line Indication
Waveform Distortion	As per input waveform
Nature Of Cooling	Oil Cooled (BS:335 Standard Oil)
Efficiency	> 98%
Cabinet Colour	Siemens Gray
Servo Motor Drive	Rugged AC step synchronous motor
Protections	<ol style="list-style-type: none">1. Electronic over & under voltage trip with time delay for input & output2. Electronic overload protection and short circuit protection through MCB3. Surge Arrester(OPTIONAL)4. Phase reversal cut off5. Single phase prevention cut off6. Neutral failure protection7. Earth neutral voltage cut off protection
Output Panel	Terminated with suitable Busbar
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Noise Level	< 55 DB at a distance of 1 Mtr



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ONLINE UPS SYSTEMS (1 kVA to 160 kVA)



Online UPS Technical Specifications

PARAMETERS	FEATURES	DESCRIPTIONS
INPUT	CAPACITY/MODELS	1 kVA to 160 kVA
	DC VOLTAGE	96/180/360 VDC
	VOLTAGE RANGE	160 to 260 VAC
	FREQUENCY	50 ± 10 %
	INPUT POWER FACTOR	0.94
	CHARGER TOPOLOGY	Buck CCCV charger
	ELECTRICAL CONNECTION	Terminal Block
OUTPUT	VOLTAGE	230 V
	VOLTAGE REGULATION	± 1%
	FREQUENCY	50 Hz
	FREQUENCY REGULATION	± 0.05 Hz
	LOAD CURRENT	34 A
	WAVEFORM	Pure Sine wave
	TRANSIENT RESPONSE	< 8 (10% -90%) Linear Load
	VOLTAGE HARMONICS	<3(Linear Load)
	OVERLOAD CAPACITY	100 to110 : 10 min, 150 to 200 : 1sec 100 to 120 : 2 mins 120 to 150 : 30 sec
	CREST FACTOR	3:1
ALARM	BUZZER SUPPORTED	Battery Low,/High Overload/Mains
DISPLAY	LED	
	LCD display (20X4)	1. UPS ON, Battery High/Low 2. Overload R-Y-B Output Volt 3. High /Low R-Y_B 4. Mains High /Low R-Y-B 5. Charging ON
PROTECTIONS	1. Output overvoltage/Under Voltage 2. Overload,I/P Low/High 3. O/P Short circuit 4. Battery Over Voltage/Under Voltage	
OTHERS	STATIC BYPASS	Optional
	MANUAL BYPASS	Default Rotary Switch
	CABINET WHEELS	Yes
	EXTENDED BATTERY CHARGING	Optional
OVERALL	EFFICIENCY (AC –AC)	>90%
	TRANSFER TIME	0 ms
	OPERATING ENVIRONMENT	0-50 'C
	OPERATING RELATIVE HUMIDITY	5-95 (Non Condensed)

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POWER DISTRIBUTION TRANSFORMERS

protekG is one of the reputed manufacturer & exporter of Power Distribution Transformers. Our Transformers are manufactured 100% outdoor type with compliance to BIS 1180 standards. Every process regarding manufacturing & quality control of each equipment is being done by a team of qualified & experienced engineers. We are manufacturing Distribution Transformers from 25 KVA to 5 MVA with both Dry and Oil type configurations.



TECHNICAL SPECIFICATIONS

1.	Type	Oil and Dry Type, Copper Wound
2.	Configuration	IS:1180 LEVEL - II (3 star), LEVEL-III (5 star)
3.	Installation	1. Outdoor Type 2. Compact Sub Station (CSS) type if required
4.	On-Load Tap Changer (OLTC)	Provided according to requirement
5.	Capacity	25 kVA to 5 MVA
6.	Input	11kV / 22kV / 33kV
7.	Output	450 V / 433 V / 415V / As per requirement
8.	Type of Cooling	ONAN
9.	Duty	Continuous Distribution
10.	Ambient Temperature	Max. 50 Deg. C
11.	Allowable Temperature Rise	Windings-45 Deg.C / Oil - 40 Deg.C
12.	Earthing LV side	Solid
13.	Frequency	50 Hz
14.	Phase Connection	DELTA/ STAR
15.	Vector Group	Dyn11
16.	% Impedance (+ IS Tolerance)	As per BIS:1180 Standards
17.	Rated Losses (+IS Tol.)	As per BIS:1180 Standards
18.	Winding Insulation Class	'A' Class
19.	Terminations	HV - bare bushing & LV - cable end box

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ULTRA ISOLATION TRANSFORMERS

protekG is one of the reputed manufacturer & exporter of Transformer & Ultra Isolation Transformer. Every process regarding manufacturing & quality control of each equipment is being done by a team of qualified & experienced engineers.

We are manufacturing the Isolation Transformer from 1 KVA to 500KVA in Single Phase & Three Phase respectively.



TECHNICAL SPECIFICATIONS			
1.	Type	Dry & Oil cooled Type, Isolation, Multi shield copper wound	
2.	Configuration	Delta : Star / Star: Star / 3 IN :1OUT/ 3IN : 3 IN / 1IN: 1OUT	
3.	Capacity	1 KVA to 25 KVA (1 Phase I/P & 1 Phase O/P) 6 KVA to 500KVA (3 Phase I/P & 3 Phase O/P) 6 KVA to 200KVA (3 Phase I/P & 1 Phase O/P)	
4.	Input	Single Phase - 230 V	Three Phase - 415V
5.	Output	Single Phase - 230 V	Three Phase - 415V
6.	Isolation	Galvanic Isolation	Ultra Isolation Galvanic with multi shield copper wound 2 Coil Transformer
7.	Inter winding Capacitance	< 0.05 mfd or better in UIT	
8.	DC galvanic Isolation	200 M ohms (winding to winding & winding to ground)	
9.	HV Test	Better than 1.5KV for 1 min	
10.	Load Regulation	Better than 5% from no Load to Full Load	
11.	Efficiency	Above 90%	
12.	CMRR	Better than 80 db	

Applications:

1. Electrical safety device
2. Used as Delta to Star conversion for lighting application
3. For UPS Output
4. For generating the local Phase ,Neutral & Earth

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CVT and ULTRA ISOLATION TRANSFORMERS

CAPACITY / MODELS	1kVA TO 1500 kVA (1-phase & 3-phase)
PROTECTIONS	1. Earth and Neutral Protection 2. Noise, Surge & Spikes Elimination
APPLICATIONS	1. Electrical Safety Device 2. Used along with Online UPS Systems 3. For IT, Electronics and Micro Controller Based Machines and Systems



MANUAL DJ SOUND TRANSFORMERS

CAPACITY / MODELS	1kVA TO 15 kVA (1-phase)
FEATURES	1. Wide Range 120-300 V 2. Pure Copper Winding 3. 16 steps control regulator 4. Digital Micro-Controller based display & high voltage cut off at 250 V with alarm 5. GRID/Generator Mode 6. 15 A sockets (4 to 6 nos)
APPLICATIONS	Used in DJ Sound systems working on both Generator and AC supply.

OUR CREDENTIALS:



ISO 14001:2016



ISO 9001:2015



CE CERTIFIED



NSIC CERTIFICATION



ELEC CONTRACTOR LICENCE

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