

Manufacturer & Exporter

Control & Potential Transformers



15+

Years of
experience

1000+

Successful
projects

10,000+

Sq.ft manufacturing
facility

500+

Domestic
customers

Newtek CTs have worked without failure for over 10 years, and are a proven imports substitute.



World-class manufacturing, quality and supply systems

Newtek Electricals is the first company to introduce nylon flame retardant casing current transformers in India, and the product is now exported to other countries as well. While meeting high demand for quality, the company has developed a reputation for continuously upgrading its technology, and delivering world-class products.

Today, Newtek Electricals has emerged as one of India's leading manufacturers and exporters of CT/PTs in resin cast and nylon casing.

Our Story...

- 2005** Indo-German joint venture Wintek Electricals founded.
- 2007** Newtek Electricals is formed as an independent entity.
- 2008** Introduced Nylon casing CTs for the first time in India; fulfills order for 70,000 CTs.
- 2009** **New!** 10,000 sq ft manufacturing facility, resin cast CTs introduced. Supplied Customized products.
- 2014** Supply of 1,15,000 CTs for 4G towers, R&D facility established, MF meters launched.
- 2020** Begins in-house manufacturing of CT core. New split core CTs introduced.

Manufacturing & Quality Testing Processes approved by leading Indian and International Customers



End-to-end Capabilities for global supply chains

R&D Capabilities

- › First company in India to introduce Nylon flame retardant casing current transformers
- › Dedicated R&D center and team to develop new products
- › Recently introduced new nylon casing split core CTs
- › Webinars are organized regularly to update customers of trends in electrical technology and resolve their issues.

Sales and Service

- › Products exported to Middle East, South Africa and Europe
- › Approvals from leading Consultants, MNCs, Govt. Agencies in India & overseas markets

Manufacturing

- › State-of-the-art manufacturing facility of 10,000 sqft. in Aurangabad
- › Monthly output capacity of 60,000 CT units.
- › ISO 9001:2008 certified company

**Approvals from
Project/Electrical
Consultants in
over 20+
Industries**



Product approvals by leading Consultants

- › MECON Limited
- › AECOM (previously Spectral Services Consultants Pvt. Ltd.)
- › Entask Consultancy Services
- › Tata Consulting Engineers
- › C.R. Narayan Rao Consultants
- › Powertec Engineering
- › Avant-Garde Engineers & Consultants
- › Satyavani Consultants
- › Karmaa SR Consultants Pvt. Ltd.
- › Design Bureau
- › IBI
- › Arup Consultant
- › Lead Consultants
- › Fichtner India
- › Power Drive Engineers
- › Archivista Engineering Projects Pvt. Ltd. (AEPPL)
- › Aami Associate Consulting Engineers
- › RSP Design Consultants India
- › Synergy Infra Consultants Pvt. Ltd.
- › J. P. Mukherji & Associates
- › Excel Design Engineers
- › Unique Consultant Services
- › Kausi Consultancy Services
- › Spectrum Pharmatech
- › Currie Brown
- › Unik Engineering Services
- › Arnita Consultants Pvt. Ltd.
- › Aevitas Pharmagro
- › Ralys Consulting Engineers
- › SYSN Consultants
- › Adarsha Developers
- › Raj Electrical Designs
- › S. M. Engineers & Consultants
- › Convenient Construction & Consultancy Pvt. Ltd.
- › Semac Consulting Engineers
- › Abhiyanta Electricals and Engineers Consultants
- › Mott MacDonald
- › S. N. Joshi Consultants
- › ESKAYEM Consultants
- › S. R. Associates
- › Knexir Consultants Pvt. Ltd.
- › Mott MacDonald
- › STUP Consultants Pvt. Ltd.
- › Chettiar Consulting Engineers
- › IPS Mehtalia
- › Vidyut Sallagar Pvt. Ltd.
- › CAMES
- › Ajit Kulkarni Consultant
- › SAN Consultants
- › Sripeksha Engineering Consultancy Services Pvt. Ltd.

Comprehensive Range of CT/PTs and Multi-Function Meters (MFMs)



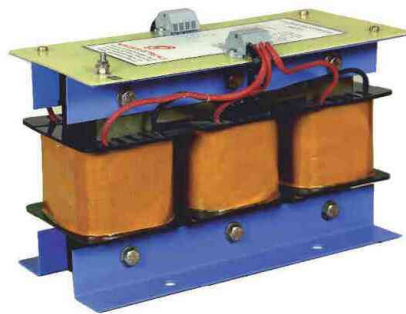
Current Transformer Nylon Casing

- Metering Type CT'S
- Window Type CT'S (Bus Bar)
 - WPL Type
 - Round ID Type CT'S
- Protection Type CT'S
- Nylon Casing-Protective Type Bus Bar



Resin Cast-Round ID

- Metering Type CT'S
- Resin Cast - WPL
 - Resin Cast - Bus Bar
 - Resin Cast - Round ID



Control Transformer

- Single-phase Resin Cast
- Three-phase Resin Cast



Digital Meter

- Energy Meter
- MFM Meter
- VAF Meter
- DPM Meter

End Customers

 VALE SHIPPING HOLDING PTE. LTD.		 BANGLADESH STEEL RE-ROLLING MILLS	
	 HINDUSTAN SHIPYARD LTD.		 NAVMUMBAI METRO
	 BUILDING A BETTER LIFE	 THE HEART OF EVERY GREAT MACHINE	
	 Applying Thought		
		 Kanjurmag East, Mumbai	

500+ Domestic Customers

100+ Overseas Customers

1000+
successful
projects



Sugar

Enpro Sugars, Rohtak
Daund Sugars, Rohtak
Renuka Sugars, Brazil
Mumias Sugar, Kenya
Shiraguppe Sugar, Rohtak
Mylar Sugars, Bangalore
White Nile Mill House, Sudan
Rohtak & Enpro Sugars, Rohtak
Lokmangal Mauli India Ltd,
Osmanabad
Chamundeshwari Sugars,
Hussain



Automobile

ARAI, Pune
ESSAR, Mumbai
VHCL, Umbergaon
Mahindra Vehicle, Chakan
Woco Motherson,
Gandhidham
VE Commercial Vehicles,
Pithampur
Honda Motorcycle &
Scooters India, Narsapura



Pulp & Paper Mill

PT Pindo, Indonesia
Subam Papers



Industrial

Asian Paints, Ankaleshwar
DMIC, Aurangabad
INA Bearings India Pvt Ltd
Polycab Cables, Vadodara
Diamond Cables, Vadodara
Cosmo Films, Vadodara
Perkins India Pvt. Ltd.,
Aurangabad
Endurance Technologies Ltd.
LG Electronics, Ho Chi Minh
Daikin, Ho Chi Minh



Malls

Patna Malls, Patna
Footpark Mall, Indore
Lotus Mall, Bangalore
Magarpatta Mall, Pune
Shoppers Stop,
(Mumbai, Bhopal)
Best Price, Aurangabad



Steel

BSPL, Bhilai
JSW Steel, (Bellary, Dolvi)
JSPL, Tamnar
BSRM, Bangladesh
Sohar Steel, Oman
Electrosteel Steels Ltd, Bokaro
SLR Metalliks, Hospet
Kalyani Garuda, Raichur
Durgapur Steel Plant
Vedanta Steel



Metro

Chennai Metro Rail Ltd, Chennai
Bengaluru Metro Rail Ltd,
Bengaluru
Hyderabad Metro Rail Ltd,
Hyderabad
Kochi Metro Rail Ltd, Kochi
Navi Mumbai Metro, Mumbai
Nagpur Metro, Nagpur



Government

MTRDC, Bhopal
PWD, Bhopal
BHEL Site Office, Ranchi



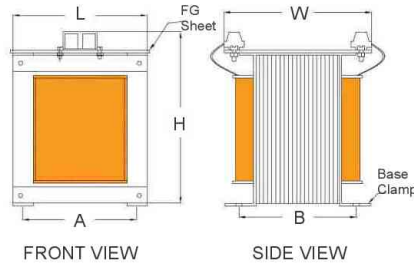
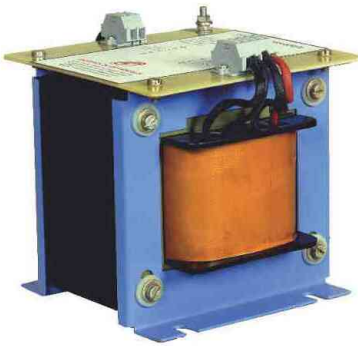
Chemical

Safe Water Chemicals, Kuwait
Kalpataru Organics, Sarigam
Virchows Lab, Hyderabad
Hikal Ltd, Hyderabad
Amoli Organics, Vapi

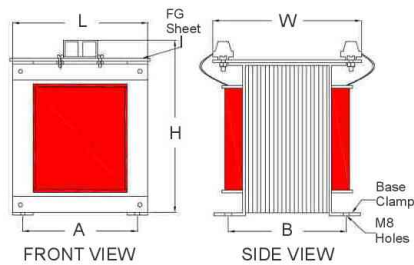
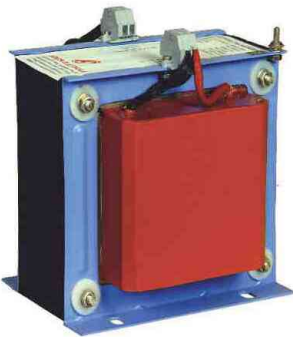
Products

Control & Potential Transformers

Single Phase Tape Insulated & Resin Cast Control Transformers



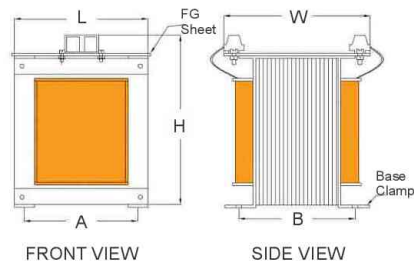
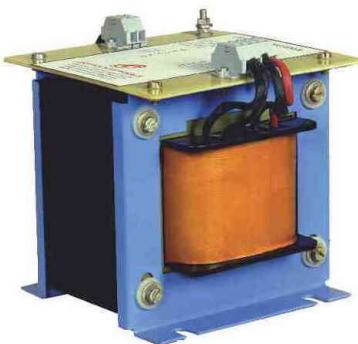
Control Transformer 1PH, 180-480V/100-415V						
Overall Dimensions (Approx.)						
VA	A	B	L	W	H	
50	64	78	82	95	90	
100	80	77	100	93	125	
150	80	102	100	120	125	
500	95	127	120	153	140	
1000	128	110	155	130	170	
2000	160	110	190	160	220	
2500	160	135	190	186	220	
3000	160	135	190	186	220	
4000	160	161	190	212	220	



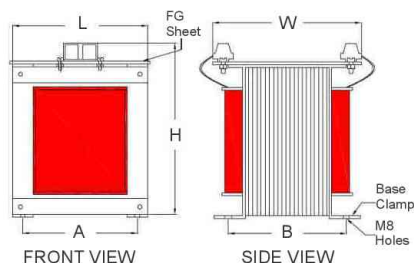
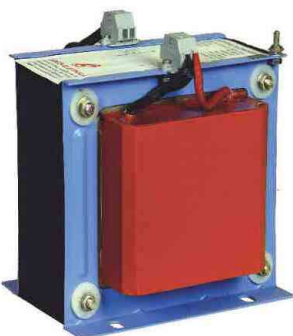
Control Transformer 1PH, 180-480V/100-415V						
Overall Dimensions (Approx.)						
VA	A	B	L	W	H	
50	64	78	82	98	90	
100	80	77	100	97	125	
150	80	102	100	123	125	
500	95	127	120	157	140	
1000	128	110	155	148	170	
2000	160	110	190	170	220	
2500	160	135	190	195	220	
3000	160	135	190	190	220	
4000	160	161	190	221	220	

Note: According to voltage ratio dimension will be change

Single Phase Tape Insulated & Resin Cast Potential Transformers



Potential Transformer 1PH, 415√3V-110√3V						
Overall Dimensions (Approx.)						
VA	A	B	L	W	H	
10	80	77	100	93	110	
15	80	77	100	93	110	
25	80	102	100	120	110	
50	95	88	120	118	125	
100	128	110	155	130	155	



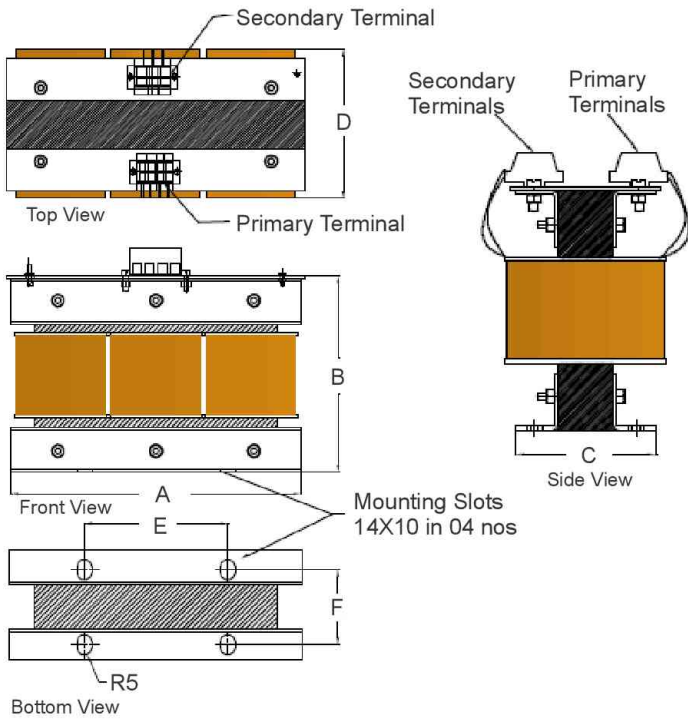
Potential Transformer 1PH, 415√3V-110√3V						
Overall Dimensions (Approx.)						
VA	A	B	L	W	H	
10	80	77	100	97	110	
15	80	77	100	97	110	
25	80	102	100	123	110	
50	95	88	120	120	125	
100	128	110	155	148	155	

All Dimensions are in "mm"

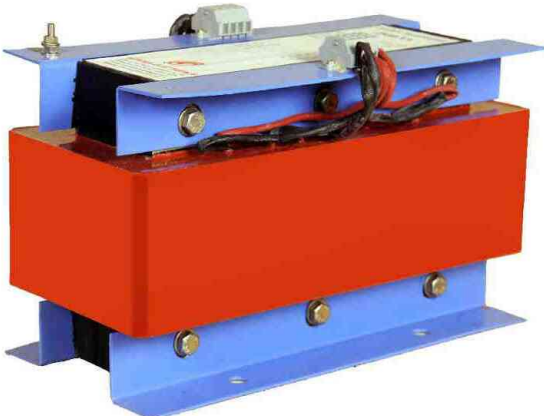
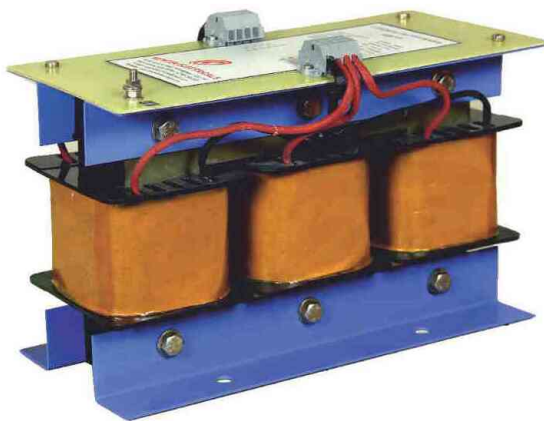
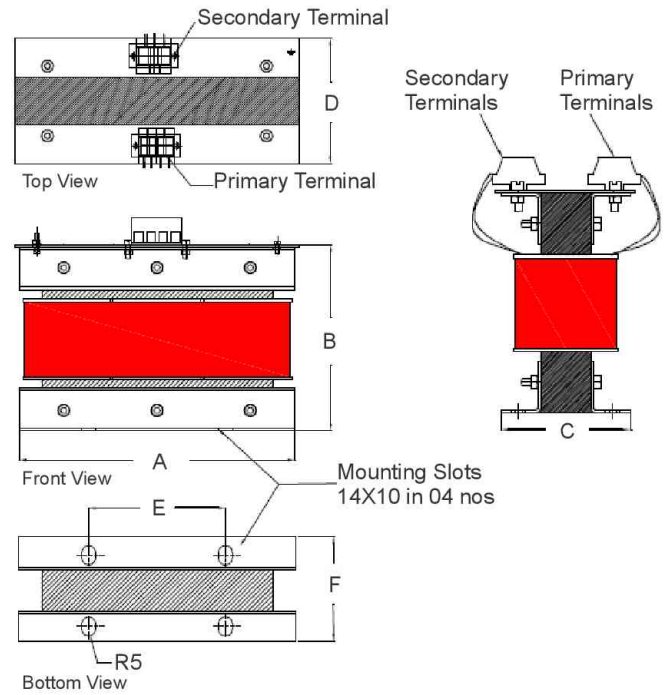
Note: According to ratio dimension will be change

Three Phase Tape Insulated & Resin Cast Control Transformers

Tape Insulated



Resin Cast



Control Transformer 3PH, 180-480V/100-415V

Overall Dimensions (Approx.)						
VA	A	B	C	D	E	F
300	198	122	123	128	98	100
500	235	150	102	106	135	77
1000	235	150	153	157	135	128
1500	304	185	160	162	150	115
2000	304	185	160	162	150	115
3000	304	185	185	187	150	140
4000	391	235	128	165	200	102
4500	391	235	128	165	200	102
5000	391	235	153	190	200	127
6000	391	235	153	190	200	127

Control Transformer 3PH, 180-480V/100-415V

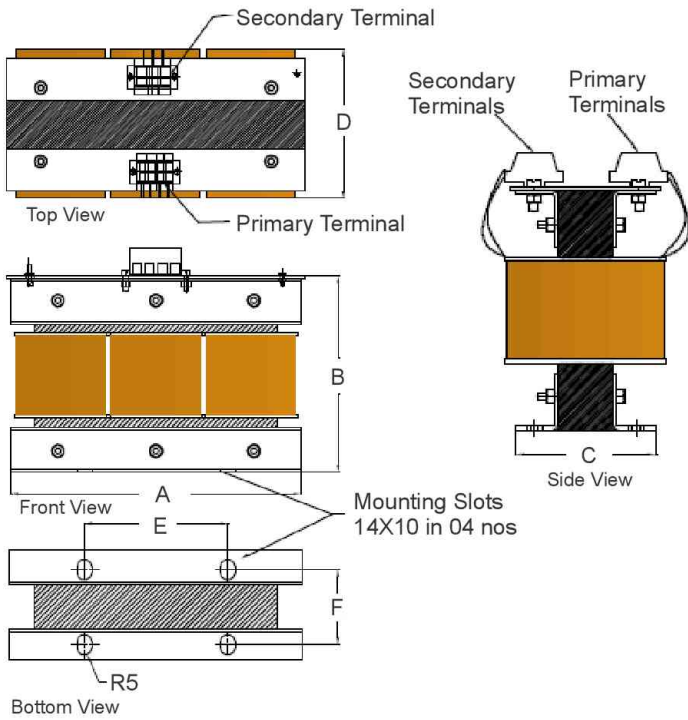
Overall Dimensions (Approx.)						
VA	A	B	C	D	E	F
300	210	122	123	128	98	100
500	240	150	102	106	135	77
1000	240	150	153	157	135	128
1500	304	185	160	162	150	115
2000	304	185	160	162	150	115
3000	304	185	185	187	150	140
4000	400	235	128	170	200	102
4500	400	235	128	170	200	102
5000	400	235	153	195	200	127
6000	400	235	153	195	200	127

All Dimensions are in "mm"

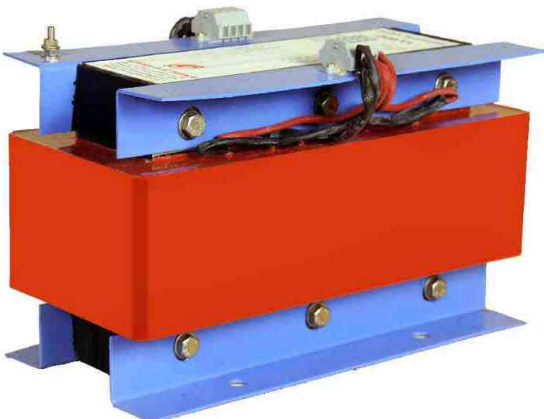
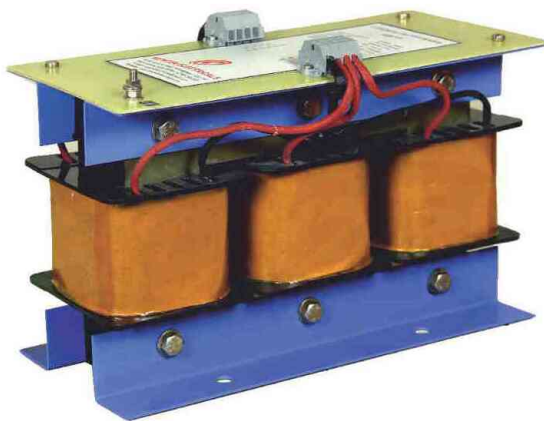
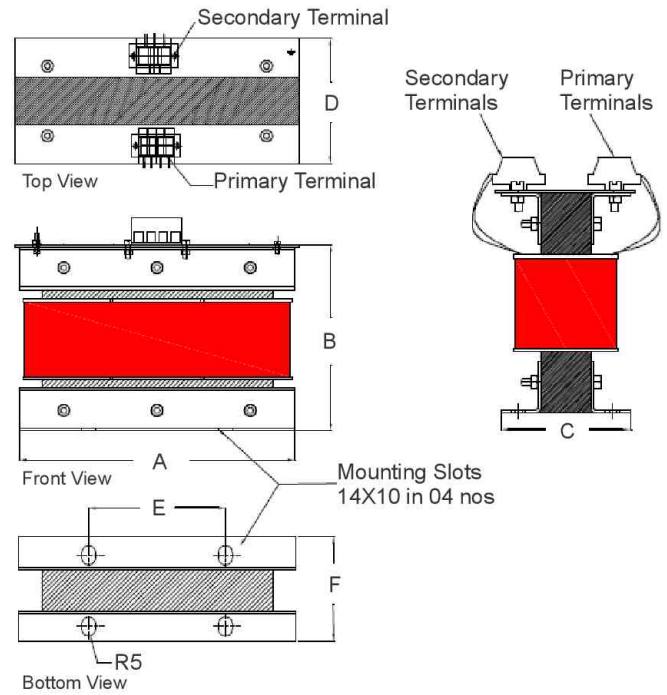
Note: According to voltage ratio dimension will be change

Three Phase Tape Insulated & Resin Cast Potential Transformers

Tape Insulated



Resin Cast



Potential Transformer 3PH, 415/3V-110/3V

Overall Dimensions (Approx.)						
VA	A	B	C	D	E	F
15	198	122	98	103	98	75
30	198	122	123	128	98	100
50	235	150	127	132	135	102
100	235	150	153	157	135	128

Potential Transformer 3PH, 415/3V-110/3V

Overall Dimensions (Approx.)						
VA	A	B	C	D	E	F
15	210	122	98	103	98	75
30	210	122	123	128	98	100
50	240	150	127	132	135	102
100	240	150	153	157	135	128

All Dimensions are in "mm"

Note: According to voltage ratio dimension will be change

General Features of NEWTEK Current Transformers

Electrical Features

- Rated frequency = 50-60 Hz
- Class of insulation = E
- Rated short time thermal current $I_{th} = 60 I_n$
- Nominal surge current $I_{dyn} = 2.5 I_{th}$
(Minimum 100 kA at all window type CT's)
- Highest voltage for equipment $U_m = 0.72 K_v$ (Other voltages on request)
- Rated power-frequency withstand voltage = 4Kv/1 min (Other voltages on request) Instrument security factor = F_s5

Mechanical Features

- Unbreakable, flame retardant, self-extinguishing
- Nylon casing of grade UL 94 V2.
- Cores are made from high grade CRGO material.
- Dual coated copper wire having class of insulation H.
- Nickel plated secondary terminals with plus minus screws of 0.5Nm.
- Integrated secondary terminal caps.

Special Notes

- CT's also available in 0.5S, 0.2 and 0.2S accuracy class on request.
- Other V_a 's are as per customer requirement.

Applicable Standards:

- Current Transformer: IS: 2705/1992; IEC/EN: 60044-1
- Potential Transformer: IS: 3156/1992; IEC: 60044-2
- Control Transformer: IS: 12021/1987; IEC: 60044-2


Control & Potential Transformer:

- Newtek provides tailor made range of LT Potential & Control Transformer as per customers demand both in single phase & three phase system, in Resin Cast/Tape Insulated/Varnish Impregnated type of Insulation.
- Voltage range 0 to 690V, Max VA:-10kVA. We can supply dual secondary, tap changer type PTs & Control Transformers.
- Available Class of PTs: 0.2, 0.5, 1.0 3P, 6P We can provide you IVTs, RVTs on demand.

newtek electricals

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