

### IT.05XX

Voltage regulators allow to obtain any voltage smoothly and continuously variable from zero to the line voltage or higher.

All models are for laboratory use, realized with metallic box, output on security terminals and protected against short circuits or overcharge.

#### Rated Current:

Output current can be draw at any brush setting for a continuous duty.

#### Ambient temperature:

Current ratings apply up to 45°C

#### Input /output voltages and max current:

see the following pages

#### Input Frequency:

from 50 to 300Hz

- Single phase
- Three phase
- Optional meters (V, A, W)
- Manual or Motor driven
- Optional PLC for automatic variation based on programmable parameters
- Output power AC and DC, with isolation transformer according to EN 61558, EN 60742
- Versions: desktop, on wheels, wall mounting



### VOLTAGE REGULATORS SINGLE & THREE PHASE, DC

Variable transformers allows to obtain any voltage smoothly-variable from zero to the line voltage or higher.

All models are available motor driven or manual, realized on request in enclosed construction, available also with voltmeters, ammeters, power meters, analog or digital version.

#### Construction

Manufacturing standards designed and tested according to VDE-0552 EN 61010, EN 50081-1, EN 50082 and IEC 61558-2-14; designed as toroidal auto transformer under quality system UNI EN ISO 9003.

#### Core

All regulators use grain-oriented strip would silicon steel cores ensuring low losses and reduce magnetising current.

#### Windings

The winding, which is insulated from the core by precision moulded winding formers, comprises a single layer (class H wire) carefully wound to provide a flat surface for the brush-gear.

#### Frames

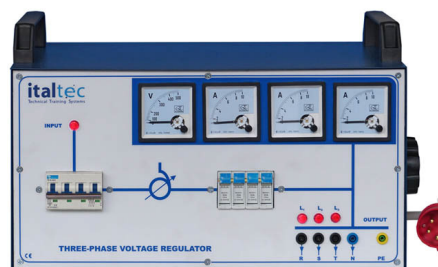
The wound core and brush gear are mounted on a cast aluminium frame providing strength combined with minimum weight.

#### Brushgear

Easily replaceable carbon units are used, the resistance of the brush being carefully calculated to limit the current circulating in the bridged turns. Brushes are mounted in robust brush carriers insulated from the shaft, and designed so that metal parts cannot come into contact with the winding in the event of brush fracture.



Version 3F/1F with transformer according to EN 61558 EN 60742 and outputs AC/DC



### Single phase voltage variators



Series	- Input - Output	Current	Power VA
0540	220V - 0-260V	0,9A - 2A	0,18k - 0,45k
0541	220V - 0-380V	1,2A - 4A	0,5k - 0,9k
0542	220V - 0-380V	2,8A - 9A	0,9k - 2k
0543	220V - 0-380V	5,2A - 15A	1,8k - 3,3k
0544	220V - 0-380V	9A - 25A	3,4k - 6k
0545	220V - 0-500V	18A - 96A	6k - 24k

### Three phase voltage variators

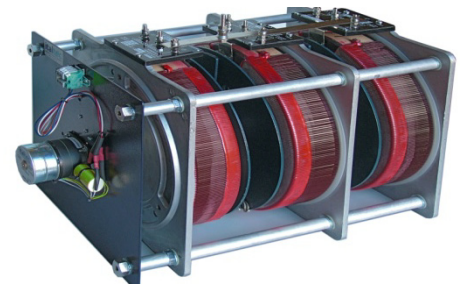


Series	- Input - Output	Current	Power VA
0546	400V - 0-450V	0,9A - 2,4A	0,9k - 1,4k
0547	400V - 0-480V	1,8A - 5,6A	0,9k - 2,7k
0548	400V - 0-480V	3,7A - 9A	1,8k - 6k
0549	400V - 0-480V	6,5A - 19A	5,4k - 9,9k
0550	400V - 0-480V	12,5A - 32A	10,5k - 17k
0551	400V - 0-500V	21A - 44A	16,5k - 24k
0552	400V - 0-500V	42A - 300A	24k - 300k

### OTHER POWER AND VOLTAGE AVAILABLE ON REQUEST

All Variac, single and three-phase, are available in industrial version or within an enclosure box, manually operated or motor driven.

Different option or meter are available like Voltmeter, Ammeter, Wattmeter analog or digital etc.



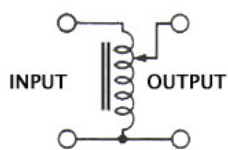
Manual version



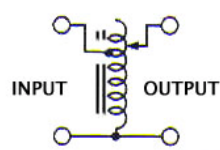
Motorized for "manual remote control" or "programmed control"



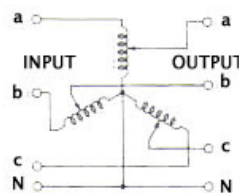
### Standard output & over-voltage output



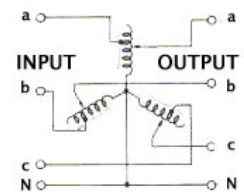
Single-phase connection



Over voltage connection  
(max output voltage is higher than max input voltage)



Three-phase star connection



Three-phase star with over voltage

### Single Phase Laboratory Voltage Variators *Variateurs de tension monophasé pour laboratoire*

Code	Input <i>Alimentation</i>	Output <i>Sortie</i>	Current <i>Courant</i>	Power VA <i>Puissance VA</i>
IT.0540.2201	220V	0-220V	0,9A	180
IT.0540.2202	220V	0-220V	2A	440
IT.0540.2401	220V	0-240V	1,5A	350
IT.0540.2601	220V	0-260V	1A	260
IT.0540.2302	230V	0-230V	2A	450
IT.0540.2701	230V	0-270V	1A	260
<b>IT.0541.2202</b>	<b>220V</b>	<b>0-220V</b>	<b>2,2A</b>	<b>500</b>
IT.0541.2204	220V	0-220V	4A	900
IT.0541.2403	220V	0-240V	3A	720
IT.0541.2603	220V	0-260V	2,5A	650
IT.0541.2802	220V	0-280V	2A	560
IT.0541.2302	230V	0-230V	3,5A	830
IT.0541.2602	230V	0-260V	3A	780
IT.0541.2901	230V	0-290V	2A	580
IT.0541.3801	380V	0-380V	1,2A	500
<b>IT.0542.2204</b>	<b>220V</b>	<b>0-220V</b>	<b>4A</b>	<b>900</b>
IT.0542.2209	220V	0-220V	9A	1980
IT.0542.2405	220V	0-240V	5A	1200
IT.0542.2605	220V	0-260V	5A	1300
IT.0542.2804	220V	0-280V	4A	1100
IT.0542.2309	230V	0-230V	9A	2000
IT.0542.2605	230V	0-260V	5A	1300
IT.0542.2804	230V	0-280V	4A	1100
IT.0542.4003	400V	0-400V	2,5A	1100
<b>IT-0543.2210</b>	<b>220V</b>	<b>0-220V</b>	<b>10A</b>	<b>2200</b>
IT-0543.2215	220V	0-220V	15A	3300
IT-0543.2407	220V	0-240V	7,5A	1800
IT-0543.2607	220V	0-260V	7A	1800
IT-0543.2806	220V	0-280V	6,5A	1800
IT-0543.2314	230V	0-230V	14A	3200
IT-0543.2610	230V	0-260V	10A	2600
IT-0543.2807	230V	0-280V	7,5A	2100
IT-0543.4005	400V	0-400V	5A	2000
<b>IT.0544.2218</b>	<b>220V</b>	<b>0-220V</b>	<b>18A</b>	<b>4000</b>
IT.0544.2225	220V	0-220V	25A	5500
IT.0544.2415	220V	0-240V	15A	3500
IT.0544.2812	220V	0-280V	12,5	3500
IT.0544.2320	230V	0-230V	20A	4600
IT.0544.2325	230V	0-230V	25A	5700
IT.0544.2613	230V	0-260V	13,5A	3500
IT.0544.2812	230V	0-280V	12,5A	3500
IT.0544.3809	380V	0-380V	9A	3500
IT.0544.4010	400V	0-400V	10A	4000
<b>IT.0545.2232</b>	<b>220V</b>	<b>0-220V</b>	<b>32A</b>	<b>7000</b>
IT.0545.2236	220V	0-220V	36A	8000
IT.0545.2425	220V	0-240V	25A	6000
IT.0545.2823	220V	0-280V	23A	6500
IT.0545.2332	230V	0-230V	32A	7400
IT.0545.2623	230V	0-260V	23A	6000
IT.0545.2822	230V	0-280V	22A	6500
IT.0545.3818	380V	0-380V	18A	7000
IT.0545.2336	230V	0-230V	36A	8000
IT.0545.2922	230V	0-290V	22A	8000
IT.0545.2364	230V	0-230V	64A	1500
IT.0545.2396	230V	0-230V	96A	22000

### Three phase laboratory voltage variators *Variateurs de tension triphasée pour laboratoire*

Code	Input Alimentation	Output Sortie	Current Courant	Power VA Puissance VA
<b>IT.0546.2202</b>	<b>220V</b>	<b>0-220V</b>	<b>2,4A</b>	<b>900VA</b>
IT.0546.2601	220V	0-260V	1,3A	600VA
IT.0546.3801	380V	0-380V	0,9A	600VA
IT.0546.3802	380V	0-380V	2A	1320VA
IT.0546.4201	380V	0-420V	1,5A	1050VA
IT.0546.4501	380V	0-450V	1A	780VA
IT.0546.4002	400V	0-400V	2A	1350VA
IT.0546.4301	400V	0-430V	1,5A	1140VA
IT.0546.4501	400V	0-450V	1A	780VA
<b>IT.0547.2205</b>	<b>220V</b>	<b>0-220V</b>	<b>5,6A</b>	<b>2100VA</b>
IT.0547.2602	220V	0-260V	2A	900VA
IT.0547.2802	220V	0-280V	1,8A	900VA
IT.0547.3804	380V	0-380V	4A	2700VA
IT.0547.4203	380V	0-420V	3A	2150VA
IT.0547.4003	380V	0-480V	2A	1680VA
IT.0547.4503	400V	0-450V	3	2500VA
IT.0547.4802	400V	0-480V	2A	1680VA
<b>IT.0548.2209</b>	<b>220V</b>	<b>0-220V</b>	<b>9A</b>	<b>3300VA</b>
IT.0548.2604	220V	0-260V	4A	1800VA
<b>IT.0548.2803</b>	<b>220V</b>	<b>0-280V</b>	<b>3,7A</b>	<b>1800VA</b>
<b>IT.0548.3809</b>	<b>380V</b>	<b>0-380V</b>	<b>9A</b>	<b>5900VA</b>
IT.0548.4205	400V	0-420V	5A	3600VA
IT.0548.4704	380V	0-470V	4A	3300VA
IT.0548.4009	400V	0-400V	9A	6000VA
IT.0548.4505	400V	0-450V	6A	4500VA
IT.0548.4804	400V	0-480V	4A	3300VA
<b>IT.0549.2219</b>	<b>220V</b>	<b>0-220V</b>	<b>19A</b>	<b>7200VA</b>
IT.0549.2613	220V	0-260V	13A	6000VA
IT.0549.2812	220V	0-280V	12,5A	6000VA
IT.0549.3815	380V	0-380V	15A	9900VA
IT.0549.4210	380V	0-420V	10A	7200VA
IT.0549.4507	380V	0-450V	7A	5400VA
IT.0549.4806	380V	0-480V	6,5A	5400VA
IT.0549.4014	400V	0-400V	14A	9600VA
IT.0549.4510	400V	0-450V	10A	7800VA
IT.0549.4807	400V	0-480V	7,5A	6300VA
<b>IT.0550.2232</b>	<b>220V</b>	<b>0-220V</b>	<b>32A</b>	<b>12000VA</b>
IT.0550.2822	220V	0-280V	22A	10500VA
IT.0550.3825	380V	0-380V	25A	16500VA
IT.0550.4412	380V	0-450V	13,5A	10500VA
IT.0550.4712	380V	0-470V	12,5A	10500VA
IT.0550.4025	400V	0-400V	25A	17000VA
IT.0550.4513	400V	0-450V	13,5A	10500VA
IT.0550.4812	400V	0-480V	12,5A	10500VA
<b>IT.0551.2244</b>	<b>220V</b>	<b>0-220V</b>	<b>44A</b>	<b>16500VA</b>
IT.0551.2835	220V	0-280V	37A	18000VA
IT.0551.3832	380V	0-380V	36A	24000VA
IT.0551.4523	380V	0-450V	23A	18000VA
IT.0551.4822	380V	0-480V	22A	18000VA
IT.0551.4032	400V	0-400V	32A	22000VA
IT.0551.4523	400V	0-450V	23A	18000VA
IT.0551.4822	400V	0-480V	22A	19500VA
IT.0551.4036	400V	0-400V	36A	24000VA
IT.0551.4528	400V	0-450V	28A	24000VA
IT.0551.5022	400V	0-500V	22A	24000VA
IT.0552.4556	400V	0-450V	56A	48000VA





Version D with digital instruments



Version N with analyzer for all 3phase parameter

