

# YORITSU

STABILIZER

Sales/Marketing : [centrado@gmx.com](mailto:centrado@gmx.com)



**#1** *Quality for your  
voltage solutions*

**NEW!**

MDi & TDi  
Digital Series



## How good is your Voltage today?

Meskipun berbagai usaha telah dilakukan oleh pihak Perusahaan Listrik, masalah tegangan yang stabil dan baik tetap mempunyai kesulitan dalam penyediaan kepada pelanggan di kalangan Industry, Rumah Sakit, Telekomunikasi, Technology Informasi dan Perumahan. Fluktuasi tegangan juga dipengaruhi oleh factor external seperti ; penambahan jaringan listrik yang berlebihan, beban industri yang yang turun naik, phase yang tidak seimbang, peralatan listrik yang menimbulkan harmonic dan surge, Yoritso stabilizer yang sudah berpengalaman 20 tahun dengan mengadopsi technology dari Jepang dan Spanyol menawarkan New Generation of Digital dengan tipe MDi untuk Mono Digital single phase dan TDi untuk Three Digital three phase.



## Operating Principal

Fluktuasi tegangan input stabilizer akan dianalisa oleh Microcontroller dengan memonitoring tegangan input dan output. Servo Motor akan bergerak mengikuti program yang telah diinstruksikan oleh Microcontroller. Sehingga memberikan tegangan output yang lebih stabil dengan accuracy yang dapat diadjust 1%,2%,3%, dan 4%. MDi dan TDi Series dilengkapi Digital Voltmeter dan Amperemeter yang memberikan tegangan yang lebih tepat dibandingkan dengan pendahulunya Analog.



## Building Characteristic

- Insulasi Class E untuk temperature max 75°C dengan ambient temperatur max 40°C.
- Core terbuat dari kern (Grain Oriented Silicon Steel) dengan rugi besi yang rendah. Type M4 (JAPAN). Ketebalan 0,27mm.
- Kern dianelling pada 750° - 800°C dalam 12 jam.
- AC / DC Servo Motor (Ex Japan) dengan kecepatan tinggi dan tidak berisik.
- Gulungan terbuat dari tembaga dengan jaminan bahwa tembaga tersebut berkwalitas tinggi. Thermal standard 180°C.
- Cetakan pirngan bakelite yang terdiri dari slot-slot membantu mesin gulung CNC mencapai presisi yang sangat sempurna.



## New Digital Stabilizer MDi & TDi Series [Available Jan 2010]

- |                           |                                 |
|---------------------------|---------------------------------|
| 1. V/A SELECTOR SWITCH    | 9. UP LED                       |
| 2. OUTPUT VOLT METER      | 10. UP PUSH BUTTON              |
| 3. OUTPUT AMPERE METER    | 11. DOWN LED                    |
| 4. INPUT LED              | 12. DOWN PUSH BUTTON            |
| 5. OUTPUT LED             | 13. AUTOMATIC LED               |
| 6. FAILURE LED            | 14. AUTO-MANUAL SELECTOR SWITCH |
| 7. OUT OF RANGE LED       | 15. MANUAL LED                  |
| 8. ADJUSTABLE OUTPUT VOLT |                                 |





TDi 800 KVA

## Specification

PHASE	SINGLE PHASE	THREE PHASE
Input Voltage	50 V - 130 OR 160 V - 240 V	378 V - 415V OR 310 V - 415 V*
Output Voltage	110 V $\pm$ 2% OR 220 V $\pm$ 1%	220 V $\pm$ 2% OR 380 V $\pm$ 1%
Frequency	45 Hz - 60 Hz	
Response time	Within 1 second against 10% input voltage deviation	
Efficiency	Better 98% (input voltage 180 V) output voltage 220V and at rated load.	
Ambient Temperature	-5°C - + 40°C	
Ambient Humidity	Less than 90% (relative humidity)	
Temperature Rise	Less than 75° C (input voltage 180V, output voltage 220 V and at rated load).	
Cooling System	Convention-cooled	
Control System	AC-DC Servo motor	
Dielectric Strength	3000 V for 1min.	

\* Above 100 KVA.

• Custom designed is welcome.

**NEW!**

## MDi & TDi Digital Series



## Key Features

1. Digital visualization of the output voltage.
2. CNC winding machines to ensure consistency in precision and tension strength.
3. Adjustable PCB electronic output with accuracy 1%, 2%, 3%, 4%.
4. High reliability / MTTR.
5. A heavy duty high speed low noise AC-DC servo motor.
6. Robust constructions, admitting over-loads up to 1000% the nominal.
7. Stable & accurate output voltage.
8. High efficiency > 98%, which means less maintenance cost.
9. Optional Over voltage: alarming, automatic cut-off.

## Applications

### Factory & Laboratory

- Transmission & Telecommunication
- Radar System in naval or air navigation
- Process control & EDP equipments
- CNC Machine
- Welding equipments
- Industrial machine/tools
- Laboratory equipments

### Home & Office

- Lighting equipment
- Air conditioning system
- Computer
- TV & Audio System
- House holds appliance
- Photographs Processing Equipment

### Hospital

- M.R.T
- C.T. Scan
- Radiology

## Products Choice

- Single phase
- Three phase
- Three phase with independent phase regulator
- Line conditioner Single Phase with isolation transformer
- Line conditioner Three Phase with isolation transformer & independent phase regulator

# Range of products



**Cabinet 1**



**Cabinet 2**



**Cabinet 3**



**Cabinet 4**



**Cabinet 5**

Servo Motor Voltage Stabilizer Single Phase  
Input 160 - 240V 50Hz / Output 220V 50Hz

Type	Power	Cabinet Model	Dimension (mm)			Weight (kg)
			D	W	H	
MDI-2	2	1	310	240	250	18
MDI-3	3	1	310	240	250	18
MDI-5	5	1	360	300	300	25
MDI-7.5	7.5	1	410	340	330	31
MDI-10	10	1	410	340	330	31
MDI-15	15	2	500	450	700	48
MDI-20	20	2	500	450	700	49

Servo Motor Voltage Stabilizer Three Phase  
Input 278 - 415V 50Hz / Output 380V 50Hz

Type	Power	Cabinet Model	Dimension (mm)			Weight (kg)
			D	W	H	
TDI-6	6	2	500	450	700	75
TDI-9	9	2	500	450	700	75
TDI-12	12	2	650	450	700	95
TDI-15	15	2	650	450	700	95
TDI-20	20	3	500	450	1100	125
TDI-25	25	3	500	450	1100	132
TDI-30	30	3	500	450	1100	135
TDI-45	45	3	550	650	1200	208
TDI-50	50	3	550	650	1200	217
TDI-60	60	3	550	650	1200	268
TDI-70	70	4	650	950	1270	323
TDI-90	90	4	550	650	1320	301
TDI-100	100	4	650	950	1270	389
TDI-120	120	4	650	950	1270	478
TDI-130	130	4	650	950	1270	505
TDI-150	150	4	650	950	1270	505
TDI-200	200	5	750	1200	1500	368
TDI-250	250	5	750	1200	1500	677
TDI-300	300	5	900	1280	1580	837
TDI-350	350	5	900	1280	1580	943
TDI-400	400	5	900	1280	1580	1149
TDI-500	500	5	900	1280	1580	1391
TDI-630	630	5	1000	1850	1700	1696
TDI-800	800	5	1200	2000	1800	2048
TDI-1000	1000	5	1500	2000	2000	2332

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