

**NEUROPOWER**

Powering Possibilities.  
Connecting Futures.



Automatic Voltage  
Stabilizer (AVS)

**AVS MCT Series**



# AVS MCT Series

The MCT (microprocessor controlled multi-cascading transformer) AVS series achieved the most precise voltage monitoring and output control by utilising microprocessors with at least three double winding transformers arranged in a cascaded manner with the secondary windings.

As a result, each transformer is commanded to feed the specific voltage amount needed by each power line through switching operations (subtracting or adding voltage) on the primary windings of the transformer.



**DATA  
CENTRES**



**INDUSTRIAL  
APPLICATION**



**MEDICAL  
SUPPORT**

# AVS MCT Series

## 2kVA-720kVA features

Providing a constant and reliable power supply, the MCT comes with excellent features that support its quality output.

### 1. Functions using microprocessors to achieve precise monitoring and output voltage control

AVS can be easily configured to meet the desired output voltage and reliability standards.

### 2. Redundancy and reliability are attained via multistage fail safe design

Minimising any form of failure to the equipment and ensuring continuous functionality of the AVS.

### 3. Absence of sliding electrical contacts strengthens durability

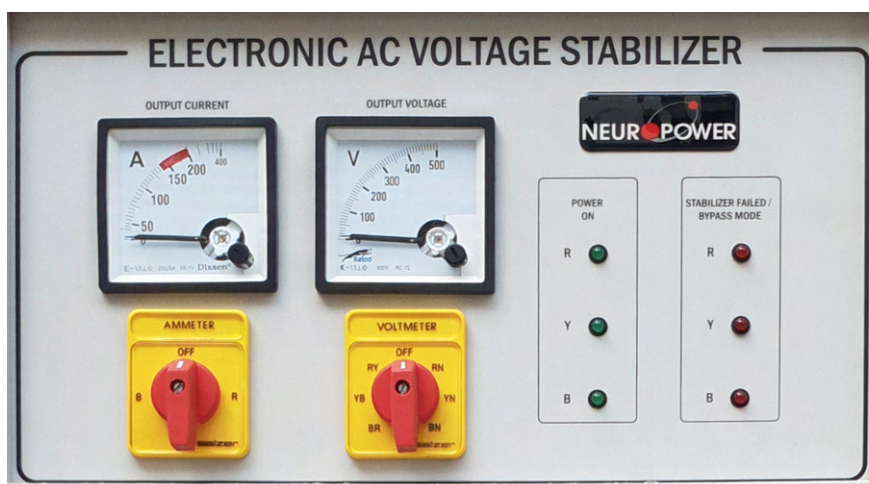
A feature with the purpose to enhance the AVS's long term reliability, necessary for facilities or areas with essential stable power supply.

### 4. High system efficiency allows a reliable performance consistency

High performing feature that provides excellent power stability with minimal supervision.







Control panel of AVS MCT

## 5. Output correction time less than 0.1 second

Quick and time efficient feature essential for an AVS that supports critical applications.

## 6. Solitary phase control for individual load handling

A practical option that is available for users who prefer using the AVS specifically for individual load handling.

## 7. Built-in automatic bypass as part of the safety control system

Prioritizing the user's safety, this feature is vital for ensuring a constant power supply.

## 8. Output is regulated via intelligent soft-start

This allows the AVS to start using a small amount of power yet ensure smoothness of the voltage regulation process to avoid damage to the delicate equipment connected.

## 9. Modular system design contributes to an easy maintenance routine

Easy maintenance feature essential for an AVS supporting essential applications.

## 10. Built-in cascading transformers for additional protection against faults

Promotes reliability and interchangeability while eliminating the disadvantages of a single unit transformer.

## 11. Optional isolation transformer for output as a form of additional safety measure

An optional safety measure that is also necessary for facilities or areas with big power supply.

## 12. Optional EMI filter for noise filtering or any electromagnetic interference

Users using this option can reduce the noise in power or any electromagnetic interference from the input power during their usage.



AVS MCT series

# ● Technical Specification

## (Single Phase)

Specification	Model	MCT-5K	MCT-7.5K	MCT-10K	MCT-15K
	Rating (kVA)	5	7.5	10	15
Input	Phase	Single			
	Nominal Voltage (VAC)	230/240			
	Range (+/-)	10%			
Output	Nominal Voltage (VAC)	240			
	Regulation Range (+/-)	2%			
	Rated Current (A)	21	32	42	63
	Outlet	(1) x Terminal Block			
Physical	Accessories & Display	c/w analog output voltmeter, input breaker & phase and bypass indicator			
	Dimension, W x D x H (mm)	Subjected to customization. Refer to Neuropower for latest physical outlook, weight and dimension.			
	Weight (kg)				

● Please refer to Neuropower for higher power rating voltage stabilizer

# Technical Specification

## (Three Phase)

Specification	Model	3MCT -10K	3MCT -15K	3MCT -20K	3MCT -30K	3MCT -40K
	Rating (kVA)	10	15	20	30	40
Input	Phase	3				
	Nominal Voltage (VAC)	400 / 415				
	Range (+/-)	10%				
Output	Nominal Voltage (VAC)	400 / 415				
	Regulation Range (+/-)	2%				
	Current (A)	14	21	28	42	56
	Outlet	(1) x Terminal Block				
Physical	Accessories & Display	c/w analog output voltmeter with selector switch, input breaker & phase + bypass indicator				
	Dimension, W x D x H (mm)	Subjected to customization. Refer to Neuropower for latest physical outlook, weight and dimension.				
	Weight (kg)					

Specification	Model	3MCT -50K	3MCT -60K	3MCT -80K	3MCT -100K	3MCT -125K
	Rating (kVA)	50	60	80	100	125
Input	Phase	3				
	Nominal Voltage (VAC)	400 / 415				
	Range (+/-)	10%				
Output	Nominal Voltage (VAC)	400 / 415				
	Regulation Range (+/-)	2%				
	Current (A)	70	84	110	140	174
	Outlet	(1) x Terminal Block				
Physical	Accessories & Display	c/w analog output voltmeter with selector switch, input breaker & phase + bypass indicator			c/w analog output voltmeter with selector switch, phase and bypass indicator	
	Dimension, W x D x H (mm)	Subjected to customization. Refer to Neuropower for latest physical outlook, weight and dimension.				
	Weight (kg)					

Specification	Model	3MCT -140K	3MCT -160K	3MCT -200K	3MCT -250K	3MCT -300K
	Rating (kVA)	140	160	200	250	300
Input	Phase	3				
	Nominal Voltage (VAC)	400 / 415				
	Range (+/-)	10%				
Output	Nominal Voltage (VAC)	400 / 415				
	Regulation Range (+/-)	2%				
	Current (A)	195	223	278	348	418
	Outlet	(1) x Terminal Block				
Physical	Accessories & Display	c/w analog output voltmeter with selector switch, phase and bypass indicator				
	Dimension, W x D x H (mm)	Subjected to customization. Refer to Neuropower for latest physical outlook, weight and dimension.				
	Weight (kg)					

• Please refer to Neuropower for higher power rating voltage stabilizer

**NEUPOWERS (M) SDN BHD** 200301034724 (637145-P)

📍 No. 23, Jalan Serendah 26/41, Hicom Industrial Estate,  
40400 Shah Alam, Selangor.

✉ enquiry@neuropower.com.my ☎ 1300 88 6772

🌐 www.neuropower.com.my 📱 NeuropowerMy

