

# NEPTUNE LS 1000-5000VA

## Microprocessor Servo Stabilizer/AVR



เครื่องปรับแรงดันไฟฟ้าอัตโนมัติ แบบเซอร์โวมอเตอร์

### Features

- Automatic Voltage Stabilizer / AVR Type Linear Servo
- Advanced Digital Microprocessor Technology
- Wide Input Voltage Range 220Vac (140-260Vac)
- Output Regulation 220Vac  $\pm 1/3\%$  (Selectable)
- Output Over&Under Voltage Protection
- LCD Display Friendly Function
- LCD Display Input / Output voltage, Load Current, AVR Status
- Short Circuit & Over Load Protection
- Selectable Output Delay Function 6/180 ms
- Built-in Toroid Transformer CRGO Low Loss
- High Efficiency Stabilizer >98%(CRGO)
- EMI & RFI Noise Filter Atten -60dB
- Surge, Spike and Lightning Protection
- Surge Energy IEC61643 LPZ3, 2 (MOV 165J : I<sub>max</sub> 6500A at 8/20 $\mu$ sec)
- National Output Plug / Terminal (3000-5000VA)
- CE Cert. : LVD : IEC61558, IEC60950, EMC : IEC55022
- ISO9001 / ISO14001:2015 MFG Certification



#### Microprocessor Control:

Advanced Digital controlled Technology enable Stabilizer/AVR more stable Voltage for Hi Performance Power Quality.



#### Servo Motor Linear Control:

Control Output Voltage 220V  $\pm 1\%$  or 3%



#### LCD Display:

Digital LCD display Input voltage Output voltage, Output current and working status with stabilizer status.



#### Stabilizer/AVR:

Automatic Voltage Stabilizer / AVR for Power Quality in Input Under Voltage, Over Voltage, Sag, Swell, Surge and EMI.

### Application



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## Microprocessor Servo Stabilizer/AVR



### FRONT PANEL



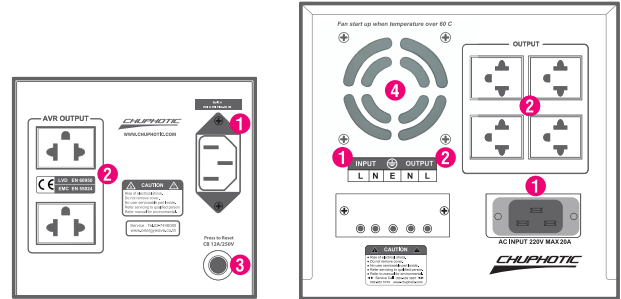
**LS1000-LS2000**

1. LCD Display
2. Delay Output Switch

**LS3000-LS5000**

3. Precision Output  $\pm 1/3\%$
4. Input Switch / Breaker

### REAR PANEL



**LS1000-LS2000**

1. Input Inlet / Terminal (EMI)
2. Output Plug / Terminal

**LS3000-LS5000**

3. Input Circuit Breaker
4. DC Fan

### SPECIFICATIONS

Model		LS1000	LS1500	LS2000	LS3000	LS5000
<b>CAPACITY</b>	VA/W (PF 0.8)	1000/800	1500/1200	2000/1600	3000/2400	5000/4000
<b>TECHNOLOGY</b>	System	Microprocessor Technology & AVR Servo with Toroid Transformer (CRGO)				
<b>INPUT</b>	Input Voltage	Single Phase, 220Vac (140-260Vac) L-N+PE				
	Input Frequency	45-65Hz (50/60 Hz)				
<b>OUTPUT</b>	Output voltage	Single Phase, 220 Vac $\pm 1\%$ or $3\%$ (Selectable) L-N+PE				
	Output Frequency	45-65Hz (50/60 Hz)				
	Efficiency (%)	>98% Low Loss				
	Output Delay	Selectable Switch 6/180 ms Depend Load Application				
<b>PROTECTION</b>	Power Quality	PQ : Under Voltage, Over Voltage, Sag, Swell, Surge Transient & EMI				
	Over/Under Voltage	Automatic Cutoff				
	Overload/Short Circuit	Auto Reset Breaker			Circuit Breaker	
	High Temperature	-			Yes (Fan speed automatic)	
	Noise Filter	EMI&RFI Filter Suppression -60 dB				
	Surge Energy (MOV)	SPD 300Vac / 165 J in 2 msec at I <sub>max</sub> 6500A				
<b>CONNECTION</b>	Standard Surge SPD	Indoor : UL1449 Cat. A, B / IEC61643 LPZ3, 2 In 3kA at 8/20 $\mu$ sec				
	Inlet Power Cord	NEMA 5-15 P / IEC320-C13			NEMA 5-15 P / IEC320-C19 +Terminal	
	Outlet / Connection	2Pcs x National			4Pcs x National + Terminal	
<b>INDICATOR</b>	LED Display	Input Voltage, Output Voltage and Stabilizer Status				
<b>STANDARD</b>	Safety/EMC	CE : LVD : IEC61558, IEC60950, EMC IEC55022				
	Manufacturer	QMS : ISO9001:2015, ISO14001:2015				
<b>ENVIRONMENT</b>	Temperature	0-45 °C				
	Humidity	RH 0-95%(Non-Condensing)				
	Attenuation	Less than 40 dB(at 1 meter)				
<b>PHYSICAL</b>	Dimension(WxDxH)mm	190x270x160			220x330x225	
	Weight(Kg)	5.8	6.6	6.6	16.4	16.4

All specification are subject to change without prior notice.

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