

# 3270 Series AC & DC Electronic Load







3270 350V, 37.5A, 3750W

3271 350V, 28A, 2800W

**3272** 350V, 18.75A, 1875W

#### **Features**

- 5 digit V/A/W Meter, display the Voltage (Vrms, Vpeak, Vmax., Vmin) \ Current (Irms, Ipeak, Imax., Imin.) \ Watt, Voltampere (VA) \ Frequency \ Crest Factor \ Power Factor \ Total Harmonic Distortion of Voltage (VTHD), Voltage Harmonic (VH) \ Total Harmonic Distortion of Current (ITHD), Current Harmonic (IH)
- CC, Linear CC, CR, CV, CP and AC Rectifier Load mode
- Up to 3 units master / slave parallel control
- ullet Three units parallel applications can be used in three-phase power supply with  $\triangle$  or Y connection.
- Frequency Range : DC, 40~440Hz

- Crest factor adjustable range: 1.414~5.0
- Power factor (PF) adjustable range: 0~1 lead or (-1~0) lag
- Can be controlled by external voltage for CC, Linear CC, CR, CV, CP mode
- Measure the fuse and circuit breaker trip or blow time
- Measure the UPS OFF-Line transfer time ( Transfer time )
- Perform short circuit simulation (can set the short circuit time), OCP, OPP test
- 150 sets Store/Recall memory
- Protection against V, I, W, and °C
- Optional interface : GPIB \ RS232 \ USB \ LAN

#### **Descriptions**

- 3270 Series is suitable for the step, square and sine wave of the AC Power device test, especially for the uninterruptible power supply UPS, Inverter, fuses, circuit breakers, power regulator AVR, battery, AC / DC power supply / components ... and so on, absolutely is the best test solution in the market.
- Master / Slave has 2 operating modes
  - Boost mode is for master / slave parallel application, the setting current will be actively shared to each load, Master ammeter will show the total current that is the sum of all ammeters, Slave voltmeter will show SL1 ~ SL2, the others are unchanged.
  - 2. 3PH mode is for 3 phase application, three 3270 series can be connected for three phase  $\Delta$  or Y connection, the setting current value (single-phase current value) will be sent to each Slave unit automatically, the user does not have to set each unit.





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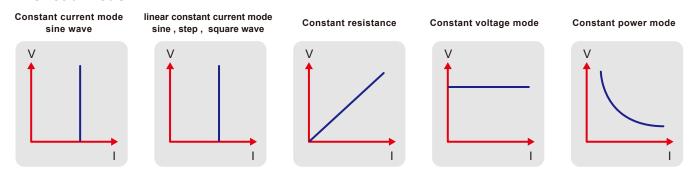
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## **Complete AC and DC load modes**

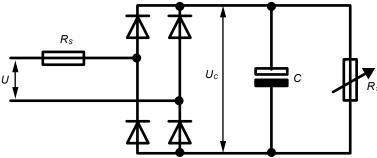
#### **AC load mode**

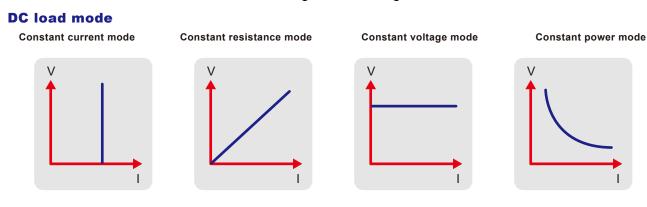


#### **AC** rectified load simulation

# (IEC62040-3 UPS Efficiency Measurement non-Linear and IEC61683 Resistive Plus Non-Linear)

3270 AC & DC electronic load AC rectified load mode is fully compliance with the IEC test specification requirements for the UPS, IEC 62040-3 UPS Efficiency Measurement Non-Linear and IEC 61683 Resistive Plus Non-Linear, respectively, 3270 AC rectifier load mode is used CC + CR load mode and maintain current THD at 80%, to simulate the actual electronic device which is connecting the UPS.





#### **Current protection component test**

Current protection component include Fuse, Circuit breakers and a new PTC Resettable fuse etc.., its function is when the circuit current exceeds the design of the rated value, that is, if the load exceeds the design of the current capacity, the circuit will be disconnected, in order to avoid overheating, even fire. At the abnormal situation occurs it must be able to provide circuit break protection capability, while within the normal current range it must continue to provide current.

The current protection component has usually a product relationship of current and time, that is, the greater the current through the current protection component, the shorter the reaction time to protect the circuit.

Due to this feature, the 3270 series AC & DC electronic load, in particular for the verification of current protection components, has developed a Fuse Test function to test and verify such protection element with an electronic load of rated current and power.

Basically, Fuse test has Trip (fuse) and Non-Trip (no fuse) 2 types.

Fuse Test setting parameters include test current (Istart), test time (Time), test repeat number REPEAT TIME etc...

In the Trip fuse test, it is used to test when the current occurs too large abnormalities must be able to provide the protection of the circuit break, that means current protection components need the fuse action, therefore the test current needs to be greater than the fuse current rating.

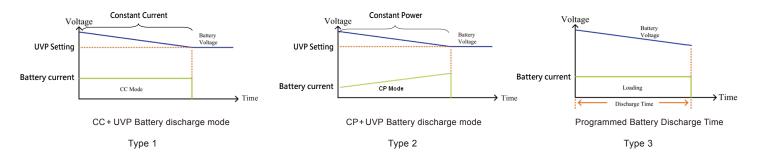
For the trip test mode of the 3270 series AC & DC electronic load, the LCD shows the Repeat times and the blow time of current protection component after the tested fuse blows.

In the Non-Trip fuse test, the current protection component is required to achieve non-blow action, so the test current needs to be lower than the fuse current rating that is used to verify the fuse must not blow during normal current range.

For the Non-trip test mode of the 3270 series AC & DC electronic load, the LCD display shows Repeat number information after the tested fuse does not blow.

# **Battery test function**

3270 series AC & DC electronic load has new TYPE1 ~ TYPE3 three kinds of battery discharge test, you can select the desired battery test mode, the test results can be directly displayed on the LCD display for battery AH capacity, the voltage value after discharge voltage, the cumulative discharge time data.

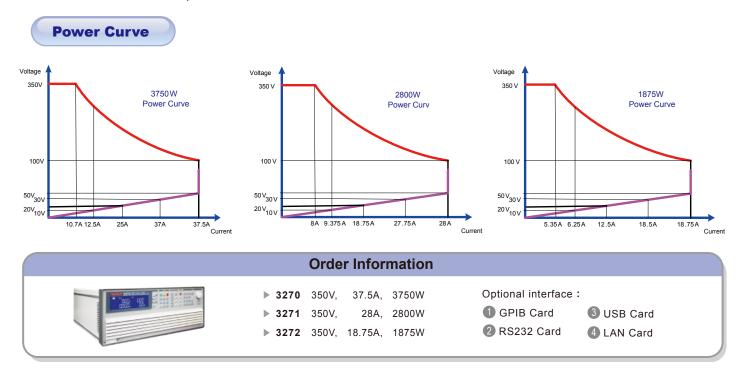


## **External Programming Input & SYNC input**

# The most complete measurement function

3270 series AC / DC electronic load has built-in 16-bit precision measurement circuit, providing accurate measurement values, measuring items include voltage rms (Vrms), current rms (Arms), watts (Watt), voltampere (VA), crest factor (CF), power factor (PF), voltage total harmonic distortion (VTHD), voltage harmonics (VH), current total harmonic distortion (ITHD), current Harmonics (IH), peak current (Ipeak), maximum ampere (Amax), minimum ampere (Amin), maximum voltage (Vmax), and minimum voltage (Vmin).

In addition to these measurement functions, it also provides time measurement, such as UPS back up time, fuses and circuit breakers' trip or blow time and Off-line UPS transfer time.



		Speci	ifications			
MODEL	3270		327			272
Power (W) Current(Ampere)	3750 V 37.5 Arms / 112		2800 28 Arms / 8			'5 W / 56.25Apeak
/oltage(Volt)	07.074III37 III	2.0Apcak	50~350Vrms	/ 500Vdc	10.707411137	7 00.20Apcak
REQUENCY Range			DC,40~4	40Hz		
over Power Protection	≒ 3937.5Wrms or F		≑2940Wrms or I			
Over Current Protection Over Vlotage Protection	≒ 39.375 Arms, or	Programmable				
ver Temp. Protection			Yes			
PERATION MODE onstant Current Mode for Sine-W						
ange	0~37.5	A	0~28	3A	0~18	3.75A
esolution	0.625mA/1		0.46875m			nA/16bits
ccuracy inear Constant Current Mode for			+ 0.2% of range ) @ 5 ve, PWM Wave	00/60HZ , ± 0.5% Of (	setting + range )	
ange	0~37.5	A	0~28A		0~18.75A	
esolution ccuracy	0.625mA/1		0.46875mA/16bits + 0.2% of range ) @ 50/60Hz , ± 0.5% of (		0.3125mA/16bits setting + range)	
onstant Resistance Mode						
ange esolution*1	1.6 ohm~32K ohm 0.010416mS/16bits		2.133 ohm~42.66K ohm 0.0078137mS / 16bits		3.2 ohm~64K ohm 0.0052083mS / 16bits	
ccuracy	0.0101101110		+ range) @ 50/60Hz,			or robito
onstant Voltage Mode ange			50~350Vrms	/ 500\/dc		
esolution			0.1\	/		
ccuracy onstant Power Mode			±(0.1% of reading +	- 0.1% of range)		
ange	3750W		2800W		1875W	
esolution	0.1W		0.1W ±(0.1% of reading + 0.1% of range)		0.1W	
ccuracy REST FACTOR (CC & CP MODE (	ONLY)		±(U.1% of reading +	- u. i% от range)		
ange			√2~5			
esolution			0.1 (0.5% / Irms)			
OWER FACTOR (CC & CP MODE	ONLY)		(0.0 % 7 111113)	. 1701.0.		
ange			0~1 Lag c			
esolution ccuracy			0.01 1%F.			
EST MODE						
IPS Efficient Measurement Operating Frequency			Non-Linea Auto ; 40~			
urrent Range	0~37.5A 0~28A 0~18.75A					
F Range EASURING EFFICIENCY FOR PV SYSTEMS			0~1			
OWER CONDITIONERS for THD 80%	,		Resistive + Non-	Linear Mode		
perating Frequency	0.27.5	Δ.	Auto ; 40~		0.40	3.75A
Current Range Resistive Range	0~37.5 1.6 ohm~32		0~28A 2.133 ohm~42.66K ohm			-64K ohm
JPS Back-Up function(CC,LIN,CR,						
IVP(VTH) IPS Back-Up Time			50~350Vrms 1~99999 Se			
Battery Discharge function(CC,LIN	,CR,CP)		1799999 36	:0. (>2711)		
JVP (VTH) Battery Discharge Time			50~350Vrms			
IPS Transfer Time			1~99999 Sec. (>27H)			
Company Dance	0~37.5A		0~28A		0~18.75A	
	0~37.5	A			0 10	3.75A
VP (VTH)	0~37.5	A	2.5\		0 10	3.75A
VP (VTH) ime range <b>urbo Mode</b>	ON	OFF	2.5\ 0.15mS~99 ON	9.99mS OFF	ON	OFF
VP (VTH) ime range <b>urbo Mode</b> laximum Current			2.5\ 0.15mS~99	9.99mS		
IVP (VTH) ime range urbo Mode laximum Current use Test mode rip & Non-Trip Time	ON	OFF	2.5\ 0.15mS~9S ON 56Arms 0.1~1.0 Sec.	9.99mS OFF 28.0Arms 0.1~9999.9sec.	ON	OFF 18.75Arms
VP (VTH) ime range urbo Mode laximum Current use Test mode rip & Non-Trip Time leas. Accuracy	ON 75Arms	OFF 37.5Arms	2.5\\ 0.15mS~98\\ ON\\ 56Arms\\ 0.1~1.0 Sec.\\ ±0.003	9.99mS OFF 28.0Arms 0.1~9999.9sec. Sec.	ON 37.5Arms	OFF 18.75Arms
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IVP (VTH) ime range durbo Mode Maximum Current use Test mode rip & Non-Trip Time Meas. Accuracy Repeat Time Short/OPP/OCP Test Function Short Time	ON 75Arms 0.1~1.0sec. 0.1S~1Sec 0.1S~1Sec 0.	OFF 37.5Arms 0.1~9999.9sec.	2.5\\ 0.15mS~9\\ ON \\ 56Arms \\ 0.1~1.0 Sec. \\ ±0.003\\ 0.1\$ ~ 1.0 Sec. \  0.1\$ ~ 1.0 Sec. \	9.99mS OFF 28.0Arms 0.1~9999.9sec. Sec. 55 0.15~10Sec. Or Cont.	ON 37.5Arms 0.1~1.0 Sec.	OFF 18.75Arms 0.1~9999.9se 0.1S~10Sec. Or
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