AC & DC Electronic Load

3270 Series AC & DC Electronic Load







3270 350V, 37.5A, 3750W **3271** 350V, 28A, 2800W

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

Features

- 5 digit V/A/W Meter , d isplay 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
- a Up to 2 units moster / dove percellal control
- Up to 3 units master / slave parallel control
- \bullet Three units parallel applications can be used in three-phase power supply with \bigtriangleup 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

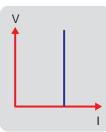
Descriptions

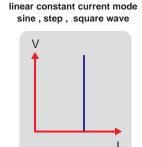
 3270 Series is suitable for the step, square and sine wave of the AC Power device test, especially for the uninterruptible power supply UPS, Inverter, fuses, circuit breakers, power regulator AVR, battery, AC / DC power supply / components ... and so on, absolutely is the best test solution in the market.

Complete AC and DC load modes

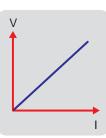
• AC load mode

Constant current mode sine wave

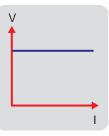




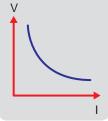
Constant resistance



Constant voltage mode



Constant power mode





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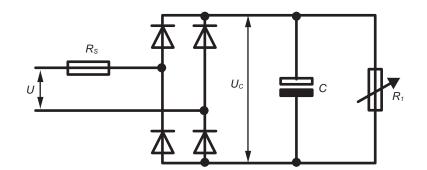
FAX : 886-2-2912-9870 <u>E-mail : sales@prodigit.com.tw</u>



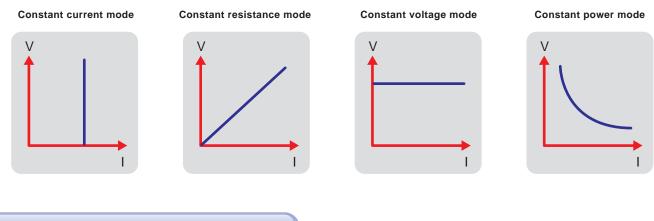
AC rectified load simulation

(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.



DC load mode



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.

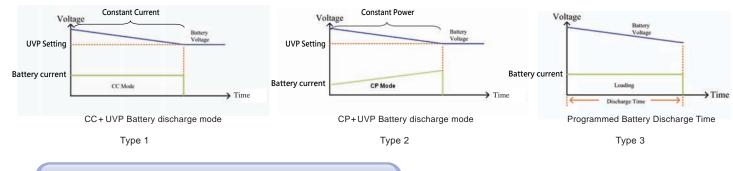
For the trip test mode of the 3270 series AC & DC electronic load, the LCD shows the Repeat times and the blow time of current protection component after the tested fuse blows.

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.

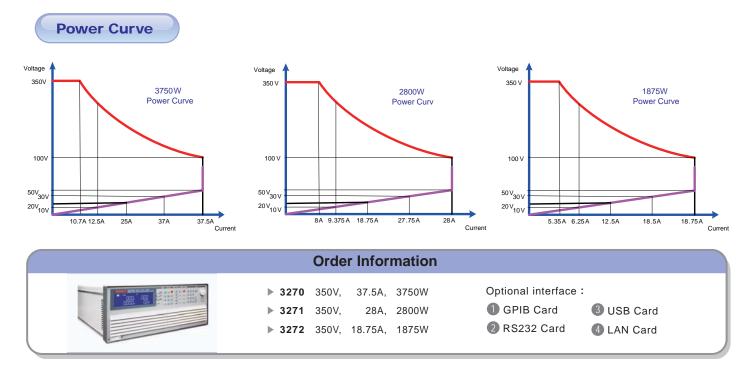


External Programming Input & SYNC input

• 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.



	Spec	ifications	
MODEL	3270	3271	3272
Power (W)	3750 W	2800W	1875 W
Current(Ampere)	37.5 Arms / 112.5Apeak	28 Arms / 84Apeak 50~350Vrms / 500Vdc	18.75 Arms / 56.25Apeak
/oltage(Volt) REQUENCY Range		DC,40~440Hz	
ROTECTIONS	1	Degle Honiz	
Ver Power Protection	≒ 3937.5Wrms or Programmable	÷2940Wrms or Programmable	÷ 1968.75Wrms or Programmable
Over Current Protection	≒ 39.375 Arms, or Programmable		≑ 19.687 Arms or Programmable
Over Vlotage Protection		= 367.5 VIIIS/525Vdc Yes	
PERATION MODE		100	
onstant Current Mode for Sine-W			
ange esolution	0~37.5A 0.625mA/16bits	0~28A 0.46875mA/16bits	0~18.75A 0.3125mA/16bits
ccuracy		+ 0.2% of range) @ 50/60Hz , $\pm 0.5\%$ of (
	Sine-Wave, Square-Wave or Quasi-Square Wa		
Range	0~37.5A	0~28A	0~18.75A
esolution	0.625mA/16bits	0.46875mA/16bits + 0.2% of range) @ 50/60Hz , ± 0.5% of (0.3125mA/16bits
constant Resistance Mode	± (0.1% of setting	+ 0.2% of range) @ 50/60Hz , ± 0.5% of (setting + range)
ange	1.6 ohm~32K ohm	2.133 ohm~42.66K ohm	$3.2 ext{ ohm}{\sim}64 ext{K ohm}$
esolution*1	0.010416mS/16bits	0.0078137mS/16bits	0.0052083mS/16bits
ccuracy	±0.2% of (setting	g + range) @ 50/60Hz , ± (0.5% of setting -	+ 2% of range)
ange		50~350Vrms / 500Vdc	
esolution	0.1V		
ccuracy		±(0.1% of reading + 0.1% of range)	
onstant Power Mode	075014	000014/	107514
ange esolution	3750W 0.1W	2800W 0.1W	1875W 0.1W
	0.177	$\pm (0.1\% \text{ of reading } + 0.1\% \text{ of range})$	0.100
REST FACTOR (CC & CP MODE C	NLY)		
lange		√2~5	
esolution		0.1 (0.5% / Irms) + 1%F.S.	
POWER FACTOR (CC & CP MODE	ONLY)	(0.5 % / IIIIs) + 1 %F.S.	
ange		0~1 Lag or Lead	
esolution		0.01	
CCURACY		1%F.S.	
IPS Efficient Measurement		Non-Linear Mode	
V SYSTEMS, POWER CONDITIONERS -	Resistive + Non-Linear Mode		
PROCEDURE FOR MEASURING EFFICIENCY			
Battery Discharge / UPS Back-Up f	unction	50~350Vrms / 500Vdc	
attery Discharge Time / UPS Back-Up Time		1~99999 Sec. (>27H)	
urbo Mode	ON OFF	ON OFF	ON OFF
laximum Current	75Arms 37.5Arms	56Arms 28.0Arms	37.5Arms 18.75Arms
rip & Non-Trip Time	0.1~1.0sec. 0.1~9999.9sec.	0.1~1.0 Sec. 0.1~9999.9sec.	0.1~1.0 Sec. 0.1~9999.9sec.
leas. Accuracy		±0.003 Sec.	
Repeat Time		0~255	
Short/OPP/OCP Test Function Short Time	0.1S~1Sec 0.1S~10Sec. Or Cont.	0.1S ~ 1.0 Sec. 0.1S~10Sec. Or Cont.	0.1S ~ 1.0 Sec. 0.1S~10Sec. Or Co
OPP/OCP Step Time	0.13~13ec 0.13~105ec. Of Colli.	100ms	0.13 ~ 1.0 Sec. 0.13~10Sec. 01 C
MEASUREMENTS			
OLTAGE READBACK A METER			
		500V	
lesolution		0.01V	
esolution .ccuracy arameter			
tesolution ccuracy arameter CURRENT READBACK A METER		0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk	
tesolution ccuracy arameter CURRENT READBACK A METER ange	18.75Arms / 37.5Arms	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms	9.375Arms / 18.75Arms
tesolution accuracy arameter SURRENT READBACK A METER ange tesolution	0.4mA / 0.8mA	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA	0.2mA / 0.4mA
tesolution accuracy arameter cURRENT READBACK A METER tange tesolution accuracy tarameter	0.4mA / 0.8mA	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms	0.2mA / 0.4mA
Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy Parameter VATT READBACK W METER	0.4mA / 0.8mA ±0.05% of (re-	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk	0.2mA / 0.4mA ding + range)
tesolution ccuracy tarameter tURRENT READBACK A METER tange tesolution ccuracy tarameter VATT READBACK W METER tange	0.4mA / 0.8mA ±0.05% of (re: 3750W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W	0.2mA / 0.4mA ling + range) 1875W
tesolution Accuracy arameter CURRENT READBACK A METER Lange Resolution Accuracy arameter VATT READBACK W METER Lange Resolution	0.4mA / 0.8mA ±0.05% of (re-	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W 0.046875W	0.2mA / 0.4mA ding + range)
tesolution ccuracy arameter :URRENT READBACK A METER ange tesolution ccuracy arameter VATT READBACK W METER tange tesolution ccuracy	0.4mA / 0.8mA ±0.05% of (re: 3750W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W	0.2mA / 0.4mA ding + range) 1875W
tesolution ccuracy larameter URRENT READBACK A METER lange tesolution ccuracy larameter VATT READBACK W METER lange tesolution ccuracy A METER lower Factor METER	0.4mA / 0.8mA ±0.05% of (re: 3750W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W 0.046875W ±0.1% of (reading + range) VrmsxArms Correspond To Vrms and Arms	0.2mA / 0.4mA ding + range) 1875W
tesolution ccuracy tarameter UURRENT READBACK A METER tange tesolution ccuracy tarameter VATT READBACK W METER tange tesolution ccuracy A METER tower Factor METER tange	0.4mA / 0.8mA ±0.05% of (re: 3750W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) Irms,I Max/Min,+/-Ipk 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000~1.000	0.2mA / 0.4mA ding + range) 1875W
esolution ccuracy arameter URRENT READBACK A METER ange esolution ccuracy arameter /ATT READBACK W METER ange esolution ccuracy A METER ower Factor METER ange ccuracy	0.4mA / 0.8mA ±0.05% of (re: 3750W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W 0.046875W ±0.1% of (reading + range) VrmsxArms Correspond To Vrms and Arms	0.2mA / 0.4mA ding + range) 1875W
tesolution ccuracy arameter URRENT READBACK A METER lange tesolution ccuracy arameter VATT READBACK W METER lange tesolution ccuracy A METER tesolution ccuracy A METER tesolution ccuracy tesolution ccuracy tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tesolution tes	0.4mA / 0.8mA ±0.05% of (re: 3750W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) Irms,I Max/Min,+/-Ipk 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000~1.000	0.2mA / 0.4mA ling + range) 1875W
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Resolution Accuracy arameter CURRENT READBACK A METER Range Resolution Accuracy arameter VATT READBACK W METER Range Resolution Accuracy VATT READBACK W METER Resolution Accuracy VATT READBACK W METER Resolution Accuracy A METER Power Factor METER Range Accuracy requency METER Range Accuracy Dither Parameter METER	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W 0.046875W ±0.1% of (reading + range) VrmsxArms Correspond To Vrms and Arms +/- 0.000~1.000 ±(0.002±(0.001/PF)*F) DC,40~440Hz	0.2mA / 0.4mA ling + range) 1875W 0.03125W
Resolution Accuracy arameter CURRENT READBACK A METER Range Resolution Accuracy arameter VATT READBACK W METER Range Resolution Accuracy A METER Power Factor METER Range Accuracy Frequency METER Range Accuracy Dether Parameter METER	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000~1.000 ±(0.002±(0.001/PF)*F) DC,40~440Hz 0.1%	0.2mA / 0.4mA ling + range) 1875W 0.03125W
Resolution Accuracy Parameter CURRENT READBACK A METER Cange Resolution Accuracy Parameter VATT READBACK W METER Range Resolution ACCURACY A METER Power Factor METER Power Factor METER Range Accuracy Prequency METER Range Accuracy Differ Parameter METER DIFFES Master/Slave(3 Phase Application) External programming input	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W	0.01V ±0.05% of (reading +range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000-1.000 ±(0.002±(0.001/PF)*F) DC,40-440Hz 0.1% 1, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, I Yes F.S / 10Vdc, Resulction 0.1V	0.2mA / 0.4mA ling + range) 1875W 0.03125W
Range Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy A METER Power Factor METER Range Accuracy Frequency METER Range Accuracy Cher Parameter METER DTHERS Master/Slave(3 Phase Application) External programming input External SYNC input (naniths (langeta))	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000-1.000 ±(0.002±(0.001/PF)*F) DC,40-440Hz 0.1% 	0.2mA / 0.4mA ling + range) 1875W 0.03125W
Resolution Accuracy arameter CURRENT READBACK A METER Range Resolution Accuracy arameter VATT READBACK W METER Range Resolution Accuracy A METER Power Factor METER Range Accuracy Frequency METER Range Accuracy Dther Parameter METER DTHERS DAte (3 Phase Application) External programming input External SYNC input (monitor (Isolated)	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W VA, VAR, CF	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000-1.000 ±(0.002±(0.001/PF)*F) DC,40-440Hz 0.1% L, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, I Yes F.S / 10Vdc, Resultion 0.1V TTL ±500V / ±10V	0.2mA / 0.4mA ling + range) 1875W 0.03125W
Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy A METER Power Factor METER Range Accuracy Frequency METER Range Accuracy Frequency METER Range Accuracy Ther Parameter METER DTHERS Master/Slave(3 Phase Application) External SYNC input (Isolated) monitor (Isolated)	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W	0.01V ±0.05% of (reading + range) Vrms, V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (read Irms,I Max/Min,+/-Ipk 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000~1.000 ±(0.002±(0.001/PF)*F) DC,40~440Hz 0.1% I, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, I Yes F.S / 10Vdc, Resultoin 0.1V TTL ±500V / ±10V ±84Apk / ±10Vpk	0.2mA / 0.4mA ling + range) 1875W 0.03125W
Resolution Accuracy arameter CURRENT READBACK A METER Range Resolution Accuracy arameter VATT READBACK W METER Range Resolution ACCURACY A METER Power Factor METER Range Accuracy A METER Power Factor METER Range Accuracy A METER Power Factor METER Range Accuracy Dither Parameter METER DTHERS Master/Slave(3 Phase Application) External programming input External SYNC input (nonitor (Isolated)	0.4mA / 0.8mA ±0.05% of (res 3750W 0.0625W VA, VAR, CF	0.01V ±0.05% of (reading + range) Vrms,V Max/Min,+/-Vpk 14Arms / 28Arms 0.3mA / 0.6mA ading + range) @ 50/60Hz , ±0.2% of (reading + range) 2800W 0.046875W ±0.1% of (reading + range) Vrms×Arms Correspond To Vrms and Arms +/- 0.000-1.000 ±(0.002±(0.001/PF)*F) DC,40-440Hz 0.1% L, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, I Yes F.S / 10Vdc, Resultion 0.1V TTL ±500V / ±10V	0.2mA / 0.4mA ling + range) 1875W 0.03125W

Note*1 : ms= milli - siemens = $1/k\Omega$