

32000 Series

交/直流电子负载



AC & DC ELECTRONIC LOAD

PRODIGIT
INSTRUMENT PROFESSIONAL

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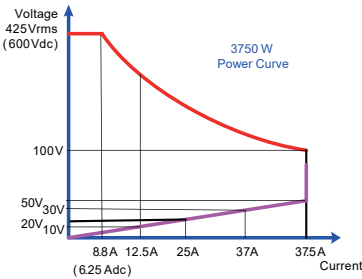
32000系列 交/直流电子负载



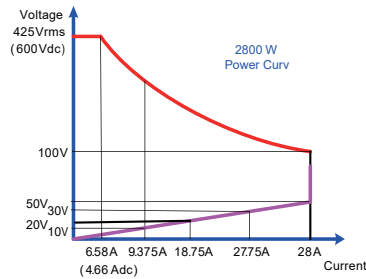
MODEL	32037-425-37.5	32028-425-28	32018-425-18.75
Power (W)	3750 W	2800W	1875 W
Current (Ampere)	37.5 Arms / 112.5Apeak	28 Arms / 84Apeak	18.75 Arms / 56.25Apeak
Voltage (Volt)	50~425Vrms / 600Vdc		

MODEL	32056-425-56	32075-425-75	32093-425-93.75	32112-425-112.5
Power (W)	5600 W	7500 W	9375W	11250W
Current (Ampere)	56.0 Arms / 168Apeak	75.0 Arms / 225Apeak	93.75 Arms / 281.25Apeak	112.5 Arms / 337.5Apeak
Voltage (Volt)	50~425Vrms / 600Vdc			

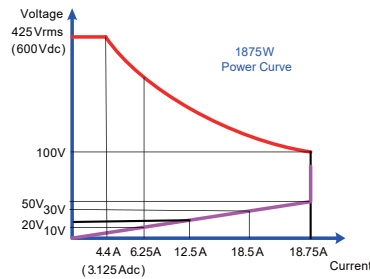
功率曲线



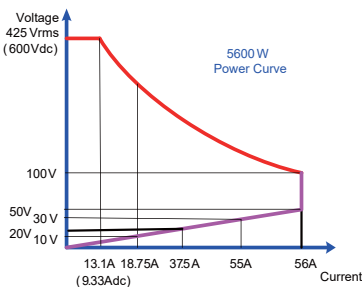
32037-425-37.5 功率曲线图



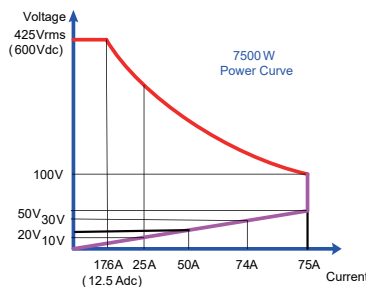
32028-425-28 功率曲线图



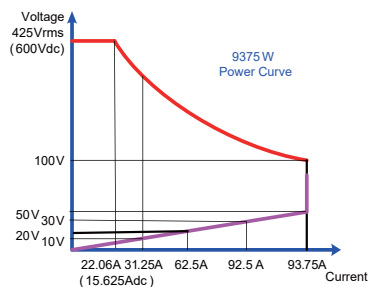
32018-425-18.75 功率曲线图



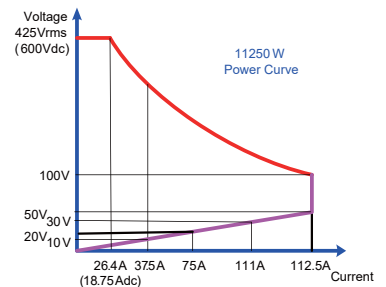
32056-425-56 功率曲线图



32075-425-75 功率曲线图



32093-425-93.75 功率曲线图



32112-425-112.5 功率曲线图

特 性

- 四个电表可同时显示电压值(Vrms, Vpeak, Vmax., Vmin)、电流值(Irms, Ipeak, Imax., Imin.)、瓦特值、伏安值(VA)、频率值、峰值因素、功率因素、电压失真度(VTHD, VH)、电流失真度(ITHD, IH)等。
- 交/直流负载具定电流、线性定电流、定电阻、定电压、定功率及整流性负载等工作模式。
- 频率范围：DC, 40~440Hz。
- 峰值因素可调范围：1.4~5.0。
- 功率因素可调范围：0~1 超前或落后 (-1~1)。
- 高达八台的并联可达 90KW 及三相 Δ 或 Y 的负载同步控制。
- 可外部电压控制 定电流、线性定电流、定电阻、定电压、定功率等工作模式
- 过电压警示、过电流、过功率、过温度保护。
- GPIB/RS232/LAN/USB 控制之介面功能。
- 可储存/呼叫 150 种电子负载状态设定，节省测试时间。
- 支援带载开机；先设定Load ON 便可支持带载开机，逆变器或不断电电源开机时便直接带着所设定负载电流开机，用来验证 Inverter连接电器时启动是否稳定。
- 支援抽载与卸载角度控制；吃载卸载角度控制，0-359度全范围都可设定，用来验证实际电器插拔时，Inverter输出电压暂态反应是否稳定，Overshoot/Undershoot 是否在容许范围内。
- 支援正半周或负半周抽载；用来验证实际电器只有正半周或负半周负载电流时，Inverter 输出电压是否维持稳定。
- 支援SCR/TRIAC的电流调变波形，90度Trailing edge及Leading Edge。
- 最齐全的量测功能

32000系列交/直流电子负载内建16位元A/D及DSP等精准的量测电路，提供了精确的量测值，量测项目共有电压均方根值 (Vrms)、电流均方根值 (Arms)、瓦特值 (Watt)、伏安 (VA)、波峰因素 (CF)、功率因素 (PF)、总谐波失真率 (THD)、电压总谐波失真率 (VTHD)、电流总谐波失真率 (ITHD)、峰值电流 (Ipeak)、电流最大值 (Amax)、电流最小值 (Amin)、电压最大值 (Vmax)、电压最小值 (Vmin)。

订 购 方 式

选购介面：① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card



- **32037-425-37.5** 425V,37.5A,3750W
- **32028-425-28** 425V,28A,2800W
- **32018-425-18.75** 425V,18.75A,1875W



- **32056-425-56**
425V,56A,5600W



- **32075-425-75**
425V,75A,7500W



- **32093-425-93.75**
425V,93.75A,9375W



- **32112-425-112.5**
425V,112.5A,11250W

规 格

MODEL	32037-425-37.5	32028-425-28	32018-425-18.75
Power (W)	3750 W	2800W	1875 W
Current(Ampere)	37.5 Arms / 112.5Apeak	28 Arms / 84Apeak	18.75 Arms / 56.25Apeak
Voltage(Volt)	50~425Vrms / 5~600Vdc		
Slew Rate(DC)	50μs		
FREQUENCY Range	DC,40~440Hz (CC,CP Mode) , DC~440Hz (LIN,CR,CV Mode)		
PROTECTIONS			
Over Power Protection	≐ 3937.5 Wrms or Programmable	≐ 2940 Wrms or Programmable	≐ 1968.75 Wrms or Programmable
Over Current Protection	≐ 39.375 Arms or Programmable	≐ 29.4 Arms or Programmable	≐ 19.687 Arms or Programmable
Over Voltage Protection	≐ 446.25 Vrms / 630Vdc		
Over Temp. Protection	Yes		
OPERATION MODE			
Constant Current Mode for Sine-Wave			
Range	0 ~ 37.5A	0 ~ 28A	0 ~ 18.75A
Resolution	0.625mA / 16bits	0.5mA / 16bits	0.3125mA / 16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz , ± 0.5% of (setting + range)		
Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave			
Range	0~37.5A	0 ~ 28A	0 ~ 18.75A
Resolution	0.625mA / 16bits	0.5mA / 16bits	0.3125mA / 16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz , ± 0.5% of (setting + range)		
Constant Resistance Mode			
Range	1.6 ohm ~ 32K ohm	2.0 ohm ~ 40K ohm	3.2 ohm ~ 64K ohm
Resolution ^{*1}	0.010416mS / 16bits	0.0083333mS / 16bits	0.0052083mS / 16bits
Accuracy	±0.5% of (setting + range) @ 50/60Hz , ± (0.5% of setting + 2% of range)		
Constant Voltage Mode			
Range	50~425Vrms / 5~600Vdc		
Resolution	0.1V		
Accuracy	±0.2% of (setting + range) @ 50/60Hz , ±0.4% of (setting + range)		
Constant Power Mode			
Range	3750W	2800W	1875W
Resolution	0.1W	0.1W	0.1W
Accuracy	±0.5% of (setting + range) @ 50/60Hz , ±2% of (setting + range)		
CREST FACTOR (CC & CP MODE ONLY)			
Range	√2~5		
Resolution	0.1		
Accuracy	(0.5% / Irms) + 1%F.S.		
POWER FACTOR (CC & CP MODE ONLY)			
Range	0~1 Lag or Lead		
Resolution	0.01		
Accuracy	1%F.S.		
MEASUREMENTS			
VOLTAGE READBACK V METER			
Range	425Vrms/600Vdc		
Resolution	0.01V		
Accuracy	±0.1% of (reading + range)		
Parameter	Vrms, V Max / Min, +/-Vpk		
CURRENT READBACK A METER			
Range	18.75Arms / 37.5Arms	14Arms / 28Arms	9.375Arms / 18.75Arms
Resolution	0.4mA / 0.8mA	0.3mA / 0.6mA	0.2mA / 0.4mA
Accuracy	±0.1% of (reading + range) @ 50/60Hz , ±0.2% of (reading + range)		
Parameter	Irms,I Max / Min,+ / -Ipk		
WATT READBACK W METER			
Range	3750W	2800W	1875W
Resolution	0.0625W	0.05W	0.03125W
Accuracy	±0.5% of (reading + range) @ 50/60Hz , ±2% of (reading + range)		
VA METER	Vrms×Arms Correspond To Vrms and Arms		
Power Factor METER			
Range	+/- 0.000~1.000		
Accuracy	± (0.002 ± (0.001 / PF) * F)		
Frequency METER (Hz)			
Range	DC,40~440Hz		
Accuracy	0.1%		
Other Parameter METER			
	VA, VAR, CF_I, Ipeak, Imax., Imin. Vmax., Vmin., IHD, VHD, ITHD, VTHD		
OTHERS			
Start up loading	Yes , Power on loading during Inverter / UPS start up		
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading		
Half cycle and SCR/TRIAC loading	Postive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed		
Master/Slave (3 Phase Application)	Yes, 1 master and upto 7 slave units		
External programming input	F.S / 10Vdc, Resolotion 0.1V		
External SYNC input	TTL		
Vmonitor (Isolated)	±600V / ±10V		
Imonitor (Isolated)	±112.5Apk / ±10Vpk	±84Apk / ±10Vpk	±56.25Apk / ±10Vpk
Interface (OPTION)	GPIB ; RS-232 ; LAN ; USB		
MAX. Power consumption	150VA		
Operation Temperature ^{*2}	0 ~ 40 °C		
Current of input impedance (mA) @50/60Hz ; @400Hz	~ V*0.6 ; ~ V*4.4	~ V*0.45 ; ~ V*3.3	~ V*0.3 ; ~ V*2.2
Dimension (H x W x D)	177 x 440 x 558 mm		
Weight	33.5Kg	27.5Kg	21.5Kg

输入电源：100~230 Vac ±10% · 50/60Hz
冷却方式：智慧型风扇冷却

注*1：ms= milli - siemens = 1/kΩ

注*2：操作温度范围为0~40°C · 此规格表内精确度仅适用于25°C±5°C及50/60Hz

All specifications are subject to change without notice.

规格

MODEL	32056-425-56	32075-425-75	32093-425-93.75	32112-425-112.5
Power (W)	5600 W	7500 W	9375W	11250W
Current(Ampere)	56 Arms / 168Apeak	75 Arms / 225Apeak	93.75 Arms / 281.25Apeak	112.5 Arms / 337.5Apeak
Voltage(Volt)	50~425Vrms / 5~600Vdc			
Slew Rate(DC)	50µs			
FREQUENCY Range	DC,40~440Hz (CC,CP Mode) , DC~440Hz (LIN,CR,CV Mode)			
PROTECTIONS				
Over Power Protection	≧ 5880Wrms or Programmable	≧ 7875Wrms or Programmable	≧ 9843.75Wrms or Programmable	≧ 11812.5Wrms or Programmable
Over Current Protection	≧ 58.8 Arms, or Programmable	≧ 78.75 Arms, or Programmable	≧ 98.4375 Arms, or Programmable	≧ 118.125 Arms or Programmable
Over Voltage Protection	≧ 446.25 Vrms / 630Vdc			
Over Temp. Protection	Yes			
OPERATION MODE				
Constant Current Mode for Sine-Wave				
Range	0~56A	0~75A	0~93.75A	0~112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.5625mA/16bits	1.875mA/16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz , ± 0.5% of (setting + range)			
Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave				
Range	0~56A	0~75A	0~93.75A	0~112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.5625mA/16bits	1.875mA/16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz			
Constant Resistance Mode				
Range	1 ohm~20K ohm	0.8 ohm~16K ohm	0.64 ohm~12.8K ohm	0.533 ohm~10.666K ohm
Resolution *1	0.016666mS/16bits	0.020832mS/16bits	0.0260416mS/16bits	0.031248mS/16bits
Accuracy	±0.5% of (setting + range) @ 50/60Hz , ± (0.5% of setting + 2% of range)			
Constant Voltage Mode				
Range	50~425Vrms / 5~600Vdc			
Resolution	0.1V			
Accuracy	±0.2% of (setting + range) @ 50/60Hz , ±0.4% of (setting + range)			
Constant Power Mode				
Range	5600W	7500W	9375W	11250W
Resolution	0.1W	0.1W	0.1W	1W
Accuracy	±0.5% of (setting + range) @ 50/60Hz , ±2% of (setting + range)			
CREST FACTOR (CC & CP MODE ONLY)				
Range	√2~5			
Resolution	0.1			
Accuracy	(0.5% / Irms) + 1%F.S.			
POWER FACTOR (CC & CP MODE ONLY)				
Range	0~1 Lag or Lead			
Resolution	0.01			
Accuracy	1%F.S.			
MEASUREMENTS				
VOLTAGE READBACK V METER				
Range	600V			
Resolution	0.01V			
Accuracy	±0.1% of (reading + range)			
Parameter	Vrms,V Max/Min,+/-Vpk			
CURRENT READBACK A METER				
Range	28Arms/56Arms	37.5Arms/75Arms	46.875Arms/93.75Arms	56.25Arms/112.5Arms
Resolution	0.6mA/1.2mA	0.8mA/1.6mA	0.78125mA/1.5625mA	1.2mA/2.4mA
Accuracy	±0.1% of (reading + range) @ 50/60Hz , ±0.4% of (reading + range)			
Parameter	Irms,I Max/Min,+/-Ipk			
WATT READBACK W METER				
Range	5600W	7500W	9375W	11250W
Resolution	0.1W	0.125W	0.15625W	0.1875W
Accuracy	±0.5% of (reading + range) @ 50/60Hz , ±2% of (reading + range)			
VA METER	Vrms×Arms Correspond To Vrms and Arms			
Power Factor METER				
Range	+/- 0.000~1.000			
Accuracy	±(0.002±(0.001/PF)*F)			
Frequency METER (Hz)				
Range	DC,40~440Hz			
Accuracy	0.1%			
Other Parameter METER				
	VA, VAR, CF_I, Ipeak, Imax., Imin., Vmax., Vmin., IHD, VHD, ITHD, VTHD			
OTHERS				
Start up loading	Yes , Power on loading during Inverter / UPS start up			
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading			
Half cycle and SCR/TRIAC loading	Postive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed			
Master/Slave (3 phase or Parallel application)	Yes, 1 master and upto 7 slave unit			
External programming input	F.S / 10Vdc, Resolution 0.1V			
External SYNC input	TTL			
Vmonitor (Isolated)	±600V / ±10V			
Imonitor (Isolated)	±168Apk / ±10Vpk	±225Apk / ±10Vpk	±281.25Apk / ±10Vpk	±337.5Apk / ±10Vpk
Interface (OPTION)	GPIB : RS-232 : LAN : USB			
MAX. Power consumption	270VA	270VA	390VA	390VA
Operation Temperature*2	0 ~ 40 °C			
Current of input impedance (mA) @ 50/60Hz ; @400Hz	~V*0.9 ; ~V*6.6	~V*1.2 ; ~V*8.8	~V*1.8 ; ~V*13.2	~V*1.8 ; ~V*13.2
Dimension(H x W x D)	458 x 480 x 593 mm	458 x 480 x 593 mm	636 x 480 x 593 mm	636 x 480 x 593 mm
Weight	58 kg	70 kg	93 kg	105 kg

输入电源：100~230 Vac ±10% · 50/60Hz
冷却方式：智慧型风扇冷却

注*1：ms= milli - siemens = 1/kΩ

注*2：操作温度范围为0~40°C · 此规格表内精确度仅适用于25°C±5°C及50/60Hz