



34300E 系列

超高功率直流電子負載

特 點

- 具備並聯功能，最大功率可達 320 kW
- 最高達 8 台主從並聯控制
- 5 位數之數位電壓、電流及功率表
- 高速量測及通訊傳輸速率
- 大型 LCD Display，可用飛梭旋鈕或按鍵調整設定值
- 可同時顯示電壓值、電流值、瓦特值
- 適用於功率因數調整器 (PFC) 測試用
- 可自動執行 OCP、OPP 測試
- 可設定開機狀態值
- 定電流、定電阻、定電壓、定功率、定電壓+限電流、定電壓+限功率、動態及短路模式。
- 於短路測試時可設定短路時間。

GW INSTEK
Simply Reliable

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- 可設定開機狀態值
- 定電流、定電阻、定電壓、定功率、定電壓+限電流、定電壓+限功率、動態及短路模式。
- 於短路測試時可設定短路時間。
- 過電流、功率、溫度保護級過電壓示警。
- 電壓極性顯示可設成正值 (“+”)或負值 (“-”)。
- 可選用介面：GPIB、RS232、USB、LAN。
- 內建緩啟動電路功能，允許 UUT 電源直接連接到 34300E 系列負載輸入端，不在需要外接緩啟動電路的大型繼電器開關。
- 支援太陽能板 MPPT CV 測試

說 明

- 34300E系列具有獨立的控制及顯示面板、定電流/定電阻/定電壓/定功率/動態模式，配合面板上的150組儲存/呼叫記憶，能有效地控制所有負載的設定，更可透過RS232、Ethernet、USB和GPIB等介面進行遠端控制。
- 具備短路測試功能及設定短路時間，並可量測短路電壓及電流。
- 在定電流及定功率模式下，可做動態負載之模擬，其電流上升、下降斜率均為獨立可調，另具有-外部輸入任意波形之動態負載功能。
- 具有OCP、OPP單鍵測試功能，使得OCP、OPP之測試更有效率及準確。
- 可設定的吃載/停止吃載 (LOAD ON/OFF) 電壓點及良/不良 (GO/NG) 的比較判斷功能、電壓極性顯示可正可負及150組儲存/呼叫記憶，使得負載更適用於各種不同的應用。
- 多達150組測試參數及狀態的儲存功能，讓其可根據自動測試 (auto sequence) 需求，隨時將儲存記憶調出來任意使用。
- 因其耐壓可高達1250V，故而非常適用於功率因數調整器 (PFC) 的測試應用。
- 主/從控制最多為1個MASTER，7個SLAVE

應 用

- 電壓/電流源測試
- 交換式電源供應器暫態響應
- 定電壓模式供限流測試及模擬電池
- 電池放電
- 電池充電
- 研發、品管
- ATE系統
- 生產測試

SPECIFICATIONS

Model	34305E		34310E		34315E	
Power	5 KW		10 KW		15 KW	
Current	0 A to 2.5 A		0 A to 5 A		0 A to 7.5 A	
Voltage	0 V to 1250 V					
Protections						
Over Power Protection(OPP)	105 %					
Over Current Protection(OCP)	104 %					
Over Voltage Protection(OVP)	104 %					
Over Temp Protection(OTP)	YES					
Constant Current Mode						
Range *1	2.5 A		5.00 A		7.5 A	
Resolution	0.04 mA		0.08 mA		0.12 mA	
Accuracy *2	± 0.05 % of (Setting + Range)					
Constant Resistance Mode						
Range	60000 Ω to 50 Ω		30000 Ω to 25 Ω		20004 Ω to 16.67 Ω	
Resolution	0.3334 μS		0.6667 μS		0.9998 μS	
Accuracy	± 0.2 % of (Setting + Range)					
Constant Voltage Mode						
Range	1250 V		1250 V		1250 V	
Resolution	20 mV		20 mV		20 mV	
Accuracy	± 0.05 % of (Setting + Range)					
Constant Power Mode						
Range	500 W		1000 W		1500 W	
Resolution	8 mW		16 mW		24 mW	
Accuracy *3	± 0.1 % of (Setting + Range)					
Constant Voltage + Current Limit Mode						
Range	1250 V		1250 V		1250 V	
Resolution	20 mV		20 mV		20 mV	
Accuracy	± 0.05 % of (Setting + Range) ± 1.0 % of (Setting + Range) ± 0.05 % of (Setting + Range) ± 1.0 % of (Setting + Range) ± 0.05 % of (Setting + Range) ± 1.0 % of (Setting + Range)					
Constant Voltage + Power Limit Mode						
Range	1250 V		1250 V		1250 V	
Resolution	20 mV		20 mV		20 mV	
Accuracy	± 0.05 % of (Setting + Range) ± 1.0 % of (Setting + Range) ± 0.05 % of (Setting + Range) ± 1.0 % of (Setting + Range) ± 0.05 % of (Setting + Range) ± 1.0 % of (Setting + Range)					
MPPT Mode						
Algorithm	P&O					
Load mode	CV					
P&O interval	1000 ms to 60000 ms ; resolution 1000 ms					
Dynamic Mode						
Timing						
Thigh & Tlow	0.050 ms to 9.999 ms/ 99.99 ms / 999.9 ms / 9999 ms					
Resolution	0.001 ms/ 0.01 ms/ 0.1 ms/ 1 ms					
Accuracy	1 μs/10 μs/100 μs/1 ms + 50 ppm					
Slew rate	0.002 A/μs to 0.125 A/μs		0.004 A/μs to 0.25 A/μs		0.006 A/μs to 0.375 A/μs	
Resolution	0.0005 A/μs		0.001 A/μs		0.0015 A/μs	
Min. Rise Time	20 μs (typical)					
Accuracy	± (5 % of Setting) ± 10 μs					
Current						
Range	0 A to 2.5 A		0 A to 5 A		0 A to 7.5 A	
Resolution	0.04 mA		0.08 mA		0.12 mA	
Measurement						
Voltage Read Back						
Range (5 Digital)	0 V to 125 V		0 V to 125 V		0 V to 125 V	
Resolution	2 mV		2 mV		2 mV	
Accuracy	± 0.025 % of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0 A to 2.5 A		0 A to 5 A		0 A to 7.5 A	
Resolution	0.04 mA		0.08 mA		0.12 mA	
Accuracy	± 0.05 % of (Reading + Range)					
Power Read Back						
Range (5 Digital)	500 W		1000 W		1500 W	
Resolution	0.1 W		0.1 W		0.1 W	
Accuracy *4	± 0.06 % of (Reading + Range)					
General						
Short Circuit						
Current	25 A		50 A		75 A	
Load ON Voltage	1.0 V to 250 V					
Load OFF Voltage	0 V to 250 V					
Power Consumption	600 Wmax		1000 Wmax		1450 Wmax	
Dimension(HxWxD)	573 mm x 647 mm x 766 mm		573 mm x 647 mm x 766 mm		728 mm x 647 mm x 766 mm	
Weight	100 Kg		130 Kg		170 Kg	
Operating Range						
Temperature *5	0 °C to 40 °C					
Humidity	20 % to 85 %rh					
Storage Range						
Temperature	-20 °C to +70 °C					
Humidity	≤ 90 %rh					
Withstanding Voltage Test						
AC input and FG	AC 1500 V, 1 minute.					
AC input and Load terminal	AC 3000 V, 1 minute.					
Load terminal and FG	AC 1500 V, 1 minute.					
Safety & EMC	CE					

Note *1 : The range is automatically or forcing to range II only in CC mode

Note *2 : If the operating current is below range 0.1 %, the accuracy specification is 0.1 % F.S.

Note *3 : If the operating voltage is higher than 600 V, the accuracy specification is 0.5 % F.S.

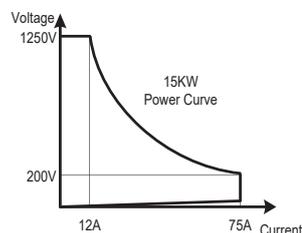
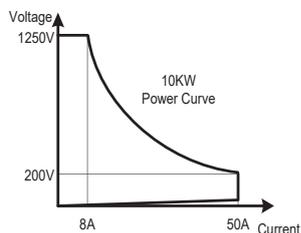
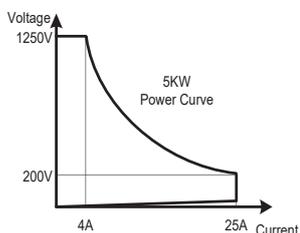
Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

Note *5 : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

All specifications are subject to change without notice.



SPECIFICATIONS

Model	34320E		34325E		34330E	
Power	20 KW	20 KW	25 KW	25 KW	30 KW	30 KW
Current	0 A to 10 A	0 A to 100 A	0 A to 12.5 A	0 A to 125 A	0 A to 15 A	0 A to 150 A
Voltage	0 V to 1250 V					
Protections						
Over Power Protection(OPP)	105 %					
Over Current Protection(OCP)	104 %					
Over Voltage Protection(OVP)	104 %					
Over Temp Protection(OTP)	YES					
Constant Current Mode						
Range ^{*1}	10:00 AM	100 A	12.5 A	125 A	15 A	150 A
Resolution	0.16 mA	1.6 mA	0.2 mA	2 mA	0.24 mA	2.4 mA
Accuracy ^{*2}	± 0.05 % of (Setting + Range)					
Constant Resistance Mode						
Range	15000 Ω to 12.5 Ω	12.5 Ω to 0.627 Ω	12000 Ω to 10 Ω	10 Ω to 0.501 Ω	9996 Ω to 8.33 Ω	8.33 Ω to 0.417 Ω
Resolution	1.3333 μS	0.209 mΩ	1.6667 μS	0.167 mΩ	2.0008 μS	0.139 mΩ
Accuracy	± 0.2 % of (Setting + Range)					
Constant Voltage Mode						
Range	1250 V		1250 V		1250 V	
Resolution	20 mV		20 mV		20 mV	
Accuracy	± 0.05 % of (Setting + Range)					
Constant Power Mode						
Range	2000 W	20000 W	2500 W	25000 W	3000 W	30000 W
Resolution	32 mW	320 mW	40 mW	400 mW	48 mW	480 mW
Accuracy ^{*3}	± 0.1 % of (Setting + Range)					
Constant Voltage + Current Limit Mode						
Range	1250 V	100 A	1250 V	125 A	1250 V	150 A
Resolution	20 mV	1.6 mA	20 mV	2 mA	20 mV	2.4 mA
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
Constant Voltage + Power Limit Mode						
Range	1250 V	20000 W	1250 V	25000 W	1250 V	30000 W
Resolution	20 mV	320 mW	20 mV	400 mW	20 mV	480 mW
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
MPPT Mode						
Algorithm	P&O					
Load mode	CV					
P&O interval	1000 ms to 60000 ms ; resolution 1000 ms					
Dynamic Mode						
Timing						
Thigh & Tlow	0.050 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 ms					
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 ms					
Accuracy	1 μs / 10 μs / 100 μs / 1 ms + 50 ppm					
Slew rate	0.008 A/μs to 0.5 A/μs	0.08 A/μs to 5 A/μs	0.01 A/μs to 0.625 A/μs	0.1 A/μs to 6.25 A/μs	0.012 A/μs to 0.75 A/μs	0.12 A/μs to 7.5 A/μs
Resolution	0.002 A/μs	0.02 A/μs	0.002 5A/μs	0.025 A/μs	0.003 A/μs	0.03 A/μs
Min. Rise Time	20 μs (typical)					
Accuracy	± (5 % of Setting) ± 10 μs					
Current						
Range	0 A to 10 A	10 A to 100 A	0 A to 12.5 A	12.5 A to 125 A	0 A to 15 A	15 A to 150 A
Resolution	0.16 mA	1.6 mA	0.2 mA	2 mA	0.24 mA	2.4 mA
Measurement						
Voltage Read Back						
Range (5 Digital)	0 V to 125 V	125 V to 1250 V	0 V to 125 V	125 V to 1250 V	0 V to 125 V	125 V to 1250 V
Resolution	2 mV	20 mV	2 mV	20 mV	2 mV	20 mV
Accuracy	± 0.025 % of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0 A to 10 A	10 A to 100 A	0 A to 12.5 A	12.5 A to 125 A	0 A to 15 A	15 A to 150 A
Resolution	0.16 mA	1.6 mA	0.2 mA	2 mA	0.24 mA	2.4 mA
Accuracy	± 0.05 % of (Reading + Range)					
Power Read Back						
Range (5 Digital)	2000 W	20000 W	2500 W	25000 W	3000 W	30000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy ^{*4}	± 0.06 % of (Reading + Range)					
General						
Short Circuit	100 A		125 A		150 A	
Load ON Voltage			1.0 V to 250 V			
Load OFF Voltage			0 V to 250 V			
Power Consumption	1900 Wmax		2350 Wmax		2800 Wmax	
Dimension(HxWxD)	885 mm x 647 mm x 766 mm		1047 mm x 647 mm x 766 mm		1197 mm x 647 mm x 766 mm	
Weight	220 Kg		280 Kg		340 Kg	
Operating Range						
Temperature ^{*5}	0 °C to 40 °C					
Humidity	20 % to 85 %rh					
Storage Range						
Temperature	-20 °C to +70 °C					
Humidity	≤ 90 %rh					
Withstanding Voltage Test						
AC input and FG	AC 1500 V, 1 minute.					
AC input and Load terminal	AC 3000 V, 1 minute.					
Load terminal and FG	AC 1500 V, 1 minute.					
Safety & EMC	CE					

Note^{*1} : The range is automatically or forcing to range II only in CC mode

Note^{*2} : If the operating current is below range 0.1 %, the accuracy specification is 0.1 % F.S.

Note^{*3} : If the operating voltage is higher than 600 V, the accuracy specification is 0.5 % F.S.

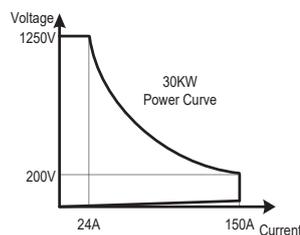
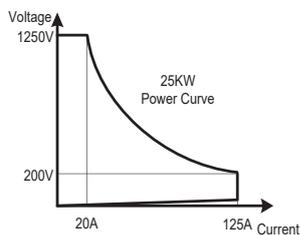
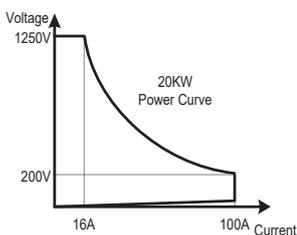
Note^{*4} : Power F.S. = Vrange F.S. x Irange F.S.

Note^{*5} : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

All specifications are subject to change without notice.



SPECIFICATIONS

Model	34335E		34340E	
Power	35 KW		40 KW	
Current	0 A to 17.5 A		0 A to 20 A	
Voltage	0 V to 1250 V			
Protections				
Over Power Protection(OPP)	105 %			
Over Current Protection(OCP)	104 %			
Over Voltage Protection(OVP)	104 %			
Over Temp Protection(OTP)	YES			
Constant Current Mode				
Range *1	17.5 A	175 A	20 A	200 A
Resolution	0.28 mA	2.8 mA	0.32 mA	3.2 mA
Accuracy *2	± 0.05 % of (Setting + Range)			
Constant Resistance Mode				
Range	8568 Ω to 7.14 Ω	7.14 Ω to 0.357 Ω	7500 Ω to 6.25 Ω	6.25 Ω to 0.315 Ω
Resolution	2.334 μS	0.119 mΩ	2.6667 μS	0.105 mΩ
Accuracy	± 0.2 % of (Setting + Range)			
Constant Voltage Mode				
Range	1250 V		1250 V	
Resolution	20 mV		20 mV	
Accuracy	± 0.05 % of (Setting + Range)			
Constant Power Mode				
Range	3500 W	35000 W	4000 W	40000 W
Resolution	56 mW	560 mW	64 mW	640 mW
Accuracy *3	± 0.1 % of (Setting + Range)			
Constant Voltage + Current Limit Mode				
Range	1250 V	175 A	1250 V	200 A
Resolution	20 mV	2.8 mA	20 mV	3.2 mA
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
Constant Voltage + Power Limit Mode				
Range	1250 V	35000 W	1250 V	40000 W
Resolution	20 mV	560 mW	20 mV	640 mW
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
MPPT Mode				
Algorithm	P&O			
Load mode	CV			
P&O interval	1000 ms to 60000 ms ; resolution 1000 ms			
Dynamic Mode				
Timing				
Thigh & Tlow	0.050 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 ms			
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 ms			
Accuracy	1 μs / 10 μs / 100 μs / 1 ms + 50 ppm			
Slew rate	0.014 A/μs to 0.875 A/μs	0.14 A/μs to 8.75 A/μs	0.016 A/μs to 1 A/μs	0.16 A/μs to 10 A/μs
Resolution	0.0035 A/μs	0.035 A/μs	0.002 A/μs	0.04 A/μs
Min. Rise Time	20 μs (typical)			
Accuracy	± (5 % of Setting) ± 10 μs			
Current				
Range	0 A to 17.5 A		17.5 A to 175 A	
Resolution	0.28 mA		2.8 mA	
Accuracy	± 0.05 % of (Setting + Range)			
Measurement				
Voltage Read Back				
Range (5 Digital)	0 V to 125 V	125 V to 1250 V	0 V to 125 V	125 V to 1250 V
Resolution	2 mV	20 mV	2 mV	20 mV
Accuracy	± 0.025 % of (Reading + Range)			
Current Read Back				
Range (5 Digital)	0 A to 17.5 A	17.5 A to 175 A	0 A to 20 A	20 A to 200 A
Resolution	0.28 mA	2.8 mA	0.32 mA	3.2 mA
Accuracy	± 0.05 % of (Reading + Range)			
Power Read Back				
Range (5 Digital)	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W
Accuracy *4	± 0.06 % of (Reading + Range)			
General				
Short Circuit				
Current	175 A		200 A	
Load ON Voltage	1.0 V to 250 V			
Load OFF Voltage	0 V to 250 V			
Power Consumption	3250 Wmax		3700 Wmax	
Dimension(HxWxD)	1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	390 Kg		430 Kg	
Operating Range				
Temperature *5	0 °C to 40 °C			
Humidity	20 % to 85 %rh			
Storage Range				
Temperature	-20 °C to +70 °C			
Humidity	≤ 90 %rh			
Withstanding Voltage Test				
AC input and FG	AC 1500 V, 1 minute.			
AC input and Load terminal	AC 3000 V, 1 minute.			
Load terminal and FG	AC 1500 V, 1 minute.			
Safety & EMC				
	CE			

Note *1 : The range is automatically or forcing to range II only in CC mode

Note *2 : If the operating current is below range 0.1 %, the accuracy specification is 0.1 % F.S.

Note *3 : If the operating voltage is higher than 600 V, the accuracy specification is 0.5 % F.S.

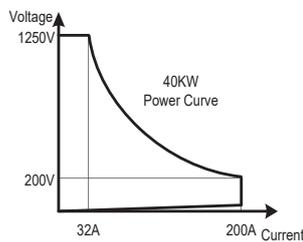
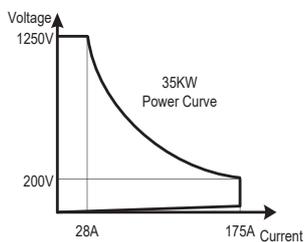
Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

Note *5 : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

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規格若有局部變更，恕不另行通知！ 34300E_BH1_C_202508

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