



36300E Series

Compact High Power DC Electronic Load

FEATURES

- With parallel function maximum power up to 480 kW.
- Maximum up to 8 units master / slave parallel control.
- 5 digit V/A/W Meter.
- High-speed measurement and communication transmission.
- Large LCD Display \ setting values can be adjusted by rotary knob or push button.
- Voltage \ Current and Watt value can be displayed simultaneously.
- Capable for Power Factor Correction (PFC) Test.
- OCP \ OPP test function automatically.
- Power ON status can be set.
- CC, CR, CV, CP , CC+CV(CV with Current Limit) ,CP+CV(CV with Power Limit), Dynamic and Short operation mode.
- SHORT time setting.

36300E Series (1250 V / 50 kW, 60 kW)

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- Large LCD Display \ setting values can be adjusted by rotary knob or push button.
- Voltage, Current and Watt value can be displayed simultaneously.
- Capable for Power Factor Correction (PFC) Test.
- OCP \ OPP test function automatically.
- CC, CR, CV, CP, CC+CV (CV mode with Current Limit), CP+CV (CV mode with Power Limit), Dynamic and Short operation mode.
- Power ON status can be set.
- SHORT time setting.
- Protections against I,W,°C and over-voltage alert.
- Voltage meter display the polarity positive ("+") or negative ("-") is selectable.
- Optional Interface : GPIB \ RS232 \ USB \ LAN.
- Support MPPT CV test function for solar panel
- Built-in soft-start circuit function allowing the U.U.T. power supply to be directly connected to the 36300E series load input terminal, no longer need a large relay switch with an external soft-start circuit.

Descriptions

- 36300E Series has its own control and display panel, CC / CR / CV / CP / Dynamic modes, 150 sets Store / Recall memory which provides load set-up more efficiently, also can be remote controlled via GPIB \ RS232 \ USB and LAN interface.
- SHORT time setting and SHORT_VH, SHORT_VL setting function, also can measure Short Voltage and Current.
- Dynamic can be simulated under CC, CP mode. The current Rise / Fall slew rate can be adjusted individually and there is an external signal input for a Arbitrary Waveform to simulate load current.
- Single key for OCP \ OPP test function will be more efficiency and accuracy on OCP \ OPP testing.
- Programmable Load ON / OFF voltage, GO / NG meter check, Voltage meter display "+" or "-" is selectable and 150 sets Store/Recall larger memory is much advance feature for each different application.
- 150 sets test parameter and status storage function, user can recall the storage memory real time in accordance with the auto sequence requirement.
- Maximum Voltage up to 1250 V provide an idea testing solution for Power Factor Correction test.
- Master / Slave control units maximum up to 1 MASTER, 7 SLAVE.

Applications

- Voltage / Current source
- SMPS transient response
- CV / Current limit testing and battery emulation
- Battery charger
- Battery discharge
- R&D Quality Control
- ATE system
- Production testing

SPECIFICATIONS

Model	36350E		36360E	
Power	50 kW	50 kW	60 kW	60 kW
Current	0 A to 25 A	0 A to 250 A	0 A to 30 A	0 A to 300 A
Voltage	0 V to 1250 V		0 ~ 1250V	
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	25 A	250 A	30 A	300 A
Resolution	0.42 mA	4.2 mA	0.48 mA	4.8 mA
Accuracy	± (0.1 % of setting + 0.2 % of Range)			
Constant Resistance Mode				
Range	5712 Ω to 4.76 Ω	4.76 Ω to 0.24 Ω	5004 Ω to 4.17 Ω	4.17 Ω to 0.21 Ω
Resolution *4	3.5014 μS	0.08 mΩ	3.9968 μS	0.07 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	5000 W	50000 W	6000 W	60000 W
Resolution	84 mW	840 mW	96 mW	960 mW
Accuracy	± 0.5 % of (Setting + Range)			
Constant Voltage + Current Limit Mode				
Range	1250 V	250 A	1250 V	300 A
Resolution	20 mV	4.2 mA	20 mV	4.8 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	50000 W	1250 V	60000 W
Resolution	20 mV	840 mW	20 mV	960 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	0.02 A/μs to 1.25 A/μs	0.2 A/μs to 12.5 A/μs	0.024 A/μs to 1.5 A/μs	0.24 A/μs to 15 A/μs
Resolution	0.005 A/μs	0.05 A/μs	0.006 A/μs	0.06 A/μs
Min. Rise Time	20 μs (typical)			
Accuracy	± (5 % of Setting) ± 10 μs			
Current				
Range	0 A to 26.25 A	26.25 A to 250 A	0 A to 30 A	30 A to 300 A
Resolution	0.42 mA	4.2 mA	0.48 mA	4.8 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
Resolution	2 mV	20 mV	2 mV	20 mV
Accuracy	± 0.025 % of (Reading + Range)			
Current Read Back				
Range (5 Digital)	0 A to 26.25 A	26.25 A to 250 A	0 A to 30 A	30 A to 300 A
Resolution	0.42 mA	4.2 mA	0.48 mA	4.8 mA
Accuracy	± 0.1 % of (Reading + Range)			
Power Read Back				
Range (5 Digital)	5000 W	50000 W	6000 W	60000 W
Resolution	0.1 W	1 W	0.1 W	1 W
Accuracy *2	± 0.125 % of (Reading + Range)			
General				
Short Circuit				
Current	250 A		300 A	
Load ON Voltage	1.0 V to 250 V		1.0 V to 250 V	
Load OFF Voltage	0 V to 250 V		0 V to 250 V	
Power Consumption	5450 Wmax		6200 Wmax	
Dimension(HxWxD)	1353 mm x 853 mm x 766 mm		1508 mm x 853 mm x 766 mm	
Weight	510 Kg		630 Kg	
Emergency Stop Input (Option)	Key & TTL			
External I/O & Analog Control (Option)	CC, CV, CP, CC+CV, CP+CV			
Operating range				
Temperature *3	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.			

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

Note *2 : Power F.S. = Vrange F.S. x Irange F.S.

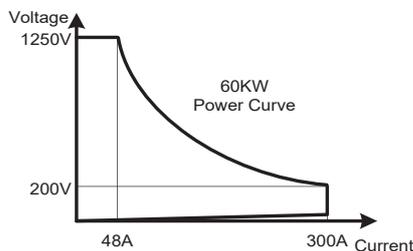
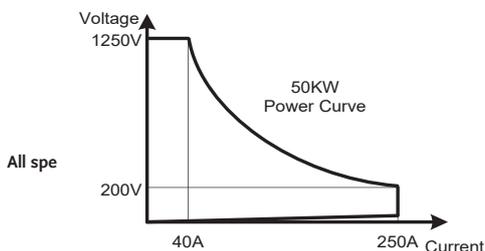
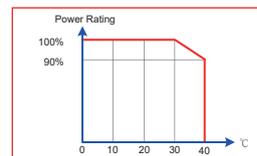
Note *3 : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

Note *4 : μS (microsiemens) is the unit of conductance(G), one siemens equal to 1/Ω

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

Cooling : Advanced Fan Cooled

All specifications are subject to change without notice.



Order Information

36350E Compact High Power DC Electronic Load 1250V / 250A / 50KW
36360E Compact High Power DC Electronic Load 1250V / 300A / 60KW



RS232 interface



GPIB interface



USB interface



LAN interface



STANDARD ACCESSORIES

Banana Plug x 2 PCs
 BNC-BNC CABLE L=1M x 1 PC
 HD-DSUB 15PIN Parallel Cable x 1 PC
 Hex Head Screw M8*1.25 L=35mm NI x4 PCs

Round Head Phillips Screw M8*1.25 L=35mm NI x4 PCs
 NUT M8 x 1.25 NI x 4 PCs
 WASHER INSIDE DIA-8.5 OUTSIDE x 8 PCs
 Power Cord x 1 PC

OPTIONAL ACCESSORIES

RS232 interface Hook Ring
 GPIB interface FPIB cable length 1 m
 USB interface FPIB cable length 2 m
 LAN interface USB TYPE A to TYPE B cable length 1.8 m

GTL-170 1000 Ampere copper braid (single hole) 1M * 2
 GTL-171 1000 Ampere copper braid (single hole) 2M * 2
 GTL-172 1000 Ampere copper braid (single hole) 3M * 2
 GTL-173 1000 Ampere copper braid (single hole) 4M * 2
 GTL-174 1000 Ampere copper braid (single hole) 5M * 2
 GTL-175 500 Ampere copper braid (single hole) 1M * 2
 GTL-176 500 Ampere copper braid (single hole) 2M * 2
 GTL-177 500 Ampere copper braid (single hole) 3M * 2
 GTL-178 500 Ampere copper braid (single hole) 4M * 2

Note: * Regarding the product delivery date, please contact your regional sales representative.

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