

36300E Series

High Power DC Electronic Load (1250V)



COMPACT HIGH POWER DC ELECTRONIC LOAD



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36300E Series Compact High Power DC Electronic Load (1250V / 50kW, 60kW)



Features

- Maximum power up to 480KW
- 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, Dynamic and Short operation mode.
- SHORT time setting.
- Protections against I, W, °C and over-voltage alert.
- Voltage meter display the polarity positive ("+ ") or negative ("- ") is selectable.
- Support MPPT CC \ CR \ CV test function for solar panel
- Optional Interface : GPIB \ RS232 \ USB \ LAN.
- 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.
- Optional 9923 load current waveform generator to provide the battery actual discharge current waveform simulation (option)

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 1000V provide an idea testing solution for Power Factor Correction test.
- Master / Slave control units maximum are up to 1 MASTER, 7 SLAVES.

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	50KW				60KW			
Current	0 ~ 25A		0 ~ 250A		0 ~ 30A		0 ~ 300A	
Voltage	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	25A		250A		30A		300A	
Resolution	0.42mA		4.2mA		0.48mA		4.8mA	
Accuracy					± (0.1% of Setting + 0.2% of Range)			
Constant Resistance Mode								
Range	5712Ω ~ 4.76Ω		4.76Ω ~ 0.24Ω		5004Ω ~ 4.17Ω		4.17Ω ~ 0.21Ω	
Resolution	3.5014μS		0.08mΩ		3.9968μS		0.07mΩ	
Accuracy					± 0.2% of (Setting + Range)			
Constant Voltage Mode								
Range					0~1250V			
Resolution					20mV			
Accuracy					± 0.05% of (Setting + Range)			
Constant Power Mode								
Range	5000W		50000W		6000W		60000W	
Resolution	84mW		840mW		96mW		960mW	
Accuracy					± 0.5% of (Setting + Range)			
Constant Voltage + Current Limit Mode								
Range	1250V		250A		1250V		300A	
Resolution	20mV		4.2mA		20mV		4.8mA	
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)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode								
Range	1250V		50000W		1250V		60000W	
Resolution	20mV		840mW		20mV		960mW	
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)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
MPPT Mode								
Algorithm					P&O			
Load mode					CV			
P&O interval					1000ms~60000ms ; resolution 1000ms			
Dynamic Mode								
Timing								
Thigh & Tlow					0.050~9.999 / 99.99 / 999.9 / 9999ms			
Resolution					0.001 / 0.01 / 0.1 / 1ms			
Accuracy					1μs / 10μs / 100μs / 1ms + 50ppm			
Slew Rate	0.02A ~ 1.25A/μS		0.2A ~ 12.5A/μS		0.024A ~ 1.5A/μS		0.24A ~ 15A/μS	
Resolution	0.005A/μS		0.05A/μS		0.006A/μS		0.06A/μS	
Min. Rise Time					20μs(typical)			
Current								
Range	0 ~ 26.25A		26.25 ~ 250A		0 ~ 30A		30 ~ 300A	
Resolution	0.42mA		4.2mA		0.48mA		4.8mA	
Measurement								
Voltage Read Back								
Range (5 Digital)	0 ~ 125V		125 ~ 1250V		0 ~ 125V		125 ~ 1250V	
Resolution	2mV		20mV		2mV		20mV	
Accuracy					± 0.025% of (Reading + Range)			
Current Read Back								
Range (5 Digital)	0 ~ 26.25A		26.25 ~ 250A		0 ~ 30A		30 ~ 300A	
Resolution	0.42mA		4.2mA		0.48mA		4.8mA	
Accuracy					± 0.1% of (Reading + Range)			
Power Read Back								
Range (5 Digital)	5000W		50000W		6000W		60000W	
Resolution	0.1W		1W		0.1W		1W	
Accuracy					± 0.125% of (Reading + Range)			
General								
Short Circuit								
Current	250A				300A			
Load ON Voltage					0 ~ 250V			
Load OFF Voltage					0 ~ 250V			
Power Consumption	5450Wmax				6200Wmax			
Dimension (HxWxD)	1353x853x766mm				1508x853x766mm			
HxWxD (Not included wheels)	1249x853x766mm				1405x853x766mm			
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					0~40℃			
Humidity					20~85%rh			
Storage range								
Temperature					-20~+70℃			
Humidity					≤90%rh			
Withstanding voltage test								
AC input and FG					AC 1500V, 1 minute.			
AC input and Load terminal					AC 3000V, 1 minute.			
Load terminal and FG					AC 1500V, 1 minute.			

Cooling : Advanced Fan Cooled

Input AC Power : ① Load-20KW(include) : 100~230 Vac ±10% , 50/60Hz

② Load-25KW above(include) : 200~230 Vac ±10% , 50/60Hz

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 0~40℃, All specifications apply for 25℃±5℃, Except as noted

Order Information

Optional interface :

- ① GPIB Card ③ USB Card
② RS232 Card ④ LAN Card

Options :
Hook ring



x4



36350E 1250V · 250A · 50KW



36360E 1250V · 300A · 60KW

All specifications are subject to change without notice.