

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.
- 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 Mode + Constant Current Mode				
Range	1250V	250A	1250V	300A
Resolution	20mV	4.2mA	20mV	4.8mA
Accuracy	±1.0% of (setting + Range)			
Constant Voltage Mode + Constant Power Mode				
Range	1250V	50000W	1250V	60000W
Resolution	20mV	840mW	20mV	960mW
Accuracy	±1.0% of (setting + Range)			
MPPT Mode				
Algorithm	P & O + Scanning			
Load mode	CC, CR,CV (MPPT C, R, V)			
Sampling interval	10ms~2000ms ; resolution 1ms			
P&O interval	10ms~2000ms ; resolution 1ms			
Memory situation	Discard old data and keep catching new data			
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)	10000W	50000W	10000W	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	
Operating Temperature*2	0~40℃			
Dimension (HxWxD)	1353x853x766mm		1508x853x766mm	
HxWxD (Not included wheels)	1249x853x766mm		1405x853x766mm	
Weight	510 Kg		630 kg	
Safety & EMC		CE		

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 : Operating temperature range is 0~40℃ , all specifications apply for 25℃±5℃

Order Information

Optional interface :

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

Options :

Hook ring



36350E 1250V , 250A , 50KW



36360E 1250V , 300A , 60KW