

36300E Series

High Power DC Electronic Load (1250V)



COMPACT HIGH POWER DC ELECTRONIC LOAD

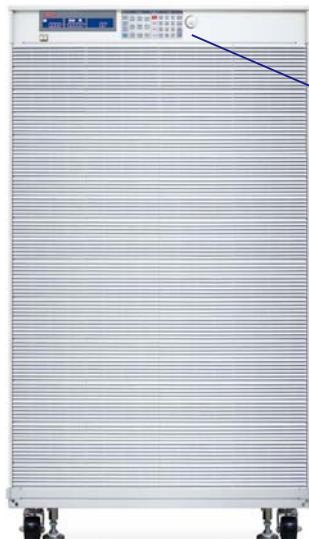
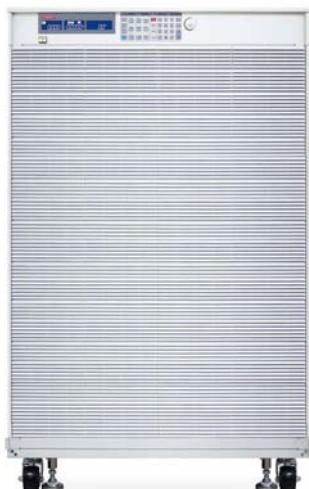


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36300E Series Compact High Power DC Electronic Load (1250V / 50KW,60KW)



1250V

50kW
60kW

2 Models Type



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*	25A	250A	30A	300A
Resolution	0.42mA	4.2mA	0.48mA	4.8mA
Accuracy	$\pm (0.1\% \text{ of Setting} + 0.2\% \text{ of Range})$			
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	$\pm 0.2\% \text{ of (Setting + Range)}$			
Constant Voltage Mode				
Range	0~1250V			
Resolution	20mV			
Accuracy	$\pm 0.05\% \text{ of (Setting + Range)}$			
Constant Power Mode				
Range	5000W	50000W	6000W	60000W
Resolution	84mW	840mW	96mW	960mW
Accuracy	$\pm 0.5\% \text{ of (Setting + Range)}$			
Constant Voltage + Current Limit Mode				
Range	1250V	250A	1250V	300A
Resolution	20mV	4.2mA	20mV	4.8mA
Accuracy	$\pm 0.05\% \text{ of (Setting+Range)}$	$\pm 1.0\% \text{ of (Setting+Range)}$	$\pm 0.05\% \text{ of (Setting+Range)}$	$\pm 1.0\% \text{ of (Setting+Range)}$
Constant Voltage + Power Limit Mode				
Range	1250V	50000W	1250V	60000W
Resolution	20mV	840mW	20mV	960mW
Accuracy	$\pm 0.05\% \text{ of (Setting+Range)}$	$\pm 1.0\% \text{ of (Setting+Range)}$	$\pm 0.05\% \text{ of (Setting+Range)}$	$\pm 1.0\% \text{ of (Setting+Range)}$
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	$\pm 0.025\% \text{ of (Reading + Range)}$			
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	$\pm 0.1\% \text{ of (Reading + Range)}$			
Power Read Back				
Range (5 Digital)	5000W	50000W	6000W	60000W
Resolution	0.1W	1W	0.1W	1W
Accuracy	$\pm 0.125\% \text{ of (Reading + Range)}$			
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°C			
Humidity	20~85%rh			
Storage range				
Temperature	-20~+70°C			
Humidity	$\leq 90\% \text{ rh}$			
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

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

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

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

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

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

Order Information

Optional interface :

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

Options :

Hook ring



36350E 1250V · 250A · 50KW

36360E 1250V · 300A · 60KW