

36000A Series

High Power DC Electronic Load



HIGH POWER DC ELECTRONIC LOAD



PRODIGIT ELECTRONICS CO., LTD.

8F., No.88, Baojhong Rd., Sindian District, New Taipei City, Taiwan (R.O.C.)

TEL : 886-2-2918-2620

FAX : 886-2-2912-9870

[http : //www.prodigit.com.tw](http://www.prodigit.com.tw) E-mail : sales@prodigit.com.tw



36000A Series Compact High Power DC Electronic Load (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.**
- Optional Interface : GPIB 、RS232 、USB 、LAN.

Descriptions

- 36000A 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	36250A		36260A		36350A		36360A	
Power	50KW		60KW		50KW		60KW	
Current	0~21A	0~210A	0~24A	0~240A	0~52.5A	0~500A	0~60A	0~600A
Voltage	0 ~ 600V		0 ~ 600V		0 ~ 1000V		0 ~ 1000V	
Min. Operating Voltage	10V@210A		10V@240A		10V@500A		10V@600A	
Protections								
Over Power Protection (OPP)	105%				105%			
Over Current Protection (OCP)	105%				104%			
Over Voltage Protection (OVP)	105%				104%			
Over Temp Protection (OTP)					Yes			
Constant Current Mode								
Range ¹	21A	210A	24A	240A	52.5A	500A	60A	600A
Resolution	0.35mA	3.5mA	0.4mA	4mA	0.875mA	8.75mA	1mA	10mA
Accuracy	± (0.1% of Setting + 0.2% of Range)							
Constant Resistance Mode								
Range	8571Ω~2.857Ω	2.857Ω~0.0477Ω	7500Ω~2.5Ω	2.5Ω~0.0417Ω	2280Ω~1.9Ω	1.9Ω~0.02Ω	2000Ω~1.666Ω	1.666Ω~0.01668Ω
Resolution	5.83μS	47.7μΩ	6.66μS	41.7μΩ	8.7μS	32μΩ	10μS	27.833μΩ
Accuracy	± 0.2% of (Setting + Range)							
Constant Voltage Mode								
Range	0~600V				10~1000V			
Resolution	10mV				16mV			
Accuracy	± 0.05% of (Setting + Range)							
Constant Power Mode								
Range	5.25KW	50KW	6KW	60KW	5.25KW	50KW	6KW	60KW
Resolution	0.0875W	0.875W	0.1W	1W	0.0875W	0.875W	0.1W	1W
Accuracy	± 0.5% of (Setting + Range)							
Constant Voltage Mode + Constant Current Mode								
Range	600V	210A	600V	240A	1000V	500A	1000V	600A
Resolution	10mV	3.5mA	10mV	4mA	16mV	8.75mA	16mV	10mA
Accuracy	± (0.1% of setting + 0.2% of Range)							
Constant Voltage Mode + Constant Power Mode								
Range	600V	50KW	600V	60KW	1000V	50KW	1000V	60KW
Resolution	10mV	0.875W	10mV	1W	16mV	0.875W	16mV	1W
Accuracy	± 0.5% 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	16.8mA~1.05A/μs	168mA~10.5A/μs	19.2mA~1.2A/μs	192mA~12A/μs	0.04A~2.5A/μs	0.4A~25A/μs	0.048A~3A/μs	0.48A~30A/μs
Resolution	4.2mA/μs	42mA/μs	4.8mA/μs	48mA/μs	0.01A/μs	0.1A/μs	0.012A/μs	0.12A/μs
Min. Rise Time	20μs(typical)							
Current								
Range	0~21A	21~210A	0~24A	24~240A	0~52.5A	52.5~500A	0~60A	60~600A
Resolution	0.35mA	3.5mA	0.4mA	4mA	0.875mA	8.75mA	1mA	10mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0~60V	60~600V	0~60V	60~600V	0~100V	100~1000V	0~100V	100~1000V
Resolution	1mV	10mV	1mV	10mV	1.6mV	16mV	1.6mV	16mV
Accuracy	± 0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0~21A	21~210A	0~24A	24~240A	0~52.5A	52.5~500A	0~60A	60~600A
Resolution	0.35mA	3.5mA	0.4mA	4mA	0.875mA	8.75mA	1mA	10mA
Accuracy	± 0.1% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	10KW	50KW	10KW	60KW	10KW	50KW	10KW	60KW
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	± 0.125% of (Reading + Range)							
General								
Short Circuit								
Current	210A		240A		500A		600A	
Load ON Voltage	0.4~100V				10.4~200V			
Load OFF Voltage	0~99V				0~198.4V			
Power Consumption	5450Wmax		6200Wmax		5450Wmax		6200Wmax	
Operating Temperature ²	0~40℃							
Dimension (HxWxD)	1353x853x766mm		1508x853x766mm		1353x853x766mm		1508x853x766mm	
HxWxD (Not included wheels)	1249x853x766mm		1405x853x766mm		1249x853x766mm		1405x853x766mm	
Weight	510 Kg		630 kg		510 kg		630 kg	
Safety & EMC								
CE								

Cooling : Advanced Fan Cooled

Input AC Power : 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



x4



36250A 600V · 210A · 50KW



36260A 600V · 240A · 60KW



36350A 1000V · 500A · 50KW



36360A 1000V · 600A · 60KW