



Your Power House
VP ELECTRONIQUE

3310F Series DC Electronic Load

3310F 60V, 30A, 150W

3311F 60V, 60A, 300W

3312F 250V, 12A, 300W

3314F 500V, 12A, 300W

3315F 60V, 15A, 75W



Features

- 5 digital V/A/W Meter.
- High-speed measurement and communication transmission.
- V.A.W. values can be displayed simultaneously.
- Large LCD Display、setting values can be adjusted by rotary knob or push button.
- OCP、OPP test function.
- Can be configured in 3302F [single channel mainframe] 、3305F [two channels mainframe] or 3300F [four channels mainframe] and the mainframe with 150 sets Store / Recall memory.
- Supply MPPT CC, CR, CV test function for solar panel.
- Function test for BMS protection board is provided (option).
- Power ON status value can be set.
- Flexible CC, CR, CV, CP, Dynamic and Short operation modes.
- SHORT time setting and SHORT_VH, SHORT_VL setting function.
- Protections against V, I, W, and °C.
- Voltage meter display the polarity positive (" + ") or negative (" - ") is selectable.
- SYNC. Load ON function.
- Optional Interface : GPIB、RS232、USB、LAN.

Descriptions

- Each 3310F Series module has its own control and display panel, CC/CR/CV/CP/Dynamic modes, plug in 3300F with 150 sets Store/Recall memory which provides load set-up more efficiently , also can be controlled intranet via RS232、Ethernet、USB and GPIB 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 so that load can have a simulated Arbitrary Waveform.
- The additional OCP 、OPP test function operated by both mainframe and module that 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 can call the storage memory real time in accordance with the auto sequence requirement.
- Short, OCCP and OCDP function test for BMS protection board is provided (option)

Applications

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

Specifications

MODEL	3310F		3311F		3312F		3314F		3315F	
Max Power	150 W		300 W		300 W		300 W		75 W	
Max Current	30 A		60 A		12 A		12 A		15 A	
Operation Voltage	60 V		60 V		250 V		500 V		60 V	
Over Power Protection	≥ 157.5 W		≥ 315 W		≥ 315 W		≥ 315 W		≥ 78.75 W	
Over Current Protection	≥ 31.5 A		≥ 63 A		≥ 12.6 A		≥ 12.6 A		≥ 15.75 A	
Over Voltage Protection	≥ 63 V		≥ 63 V		≥ 262.5 V		≥ 525 V		≥ 63 V	
Over Temp. Protection	≥ 85 °C		≥ 85 °C		≥ 85 °C		≥ 85 °C		≥ 85 °C	
CC MODE										
Range	0~3A	0~30 A	0~6 A	0~60 A	0~1.2A	0~12A	0~1.2 A	0~12 A	0~1.5 A	0~15 A
Resolution	0.05 mA	0.5 mA	0.1 mA	1mA	0.02 mA	0.2mA	0.02 mA	0.2 mA	0.0254 mA	0.25 mA
Accuracy	± 0.1% OF (SETTING + RANGE)									
CR MODE										
Range	2~120KΩ	0.02~2Ω	1~60KΩ	0.00833~1Ω	25~1500KΩ	0.08~25Ω	50~3000KΩ	0.5~50Ω	4~240KΩ	0.02~4Ω
Resolution	0.00833mS	33.334μΩ	0.01666mS	16.667μΩ	0.000666mS	416.667μΩ	0.000333mS	833.334μΩ	0.04166mS	66.667μΩ
Accuracy	± 0.2% OF (SETTING + RANGE)									
CV MODE										
Range	0~6 V	0~60 V	0~6V	0~60V	0~30V	0~250 V	0~60 V	0~500 V	0~6 V	0~60 V
Resolution	0.1 mV	1 mV	0.1 mV	1 mV	1 mV	10 mV	0.001 V	0.01 V	0.0001V	0.001V
Accuracy	± 0.05% OF (SETTING + RANGE)									
CP MODE										
Range	0~15 W	0~150 W	0~30 W	0~300 W	0~30 W	0~300 W	0~30 W	0~300 W	0~7.5 W	0~75 W
Resolution	0.25 mW	2.5 mW	1 mW	10 mW	1 mW	10 mW	0.001 W	0.01 W	0.000125 W	0.00125 W
Accuracy	± 0.5% OF (SETTING + RANGE)									
DYNAMIC OPERATION										
Thigh & Tlow	50% μSec TO 9.999 Sec									
Slew Rate	2.0~125 mA/μSec	20~1250 mA/μSec	4~250 mA/μSec	40~2500 mA/μSec	0.8~50 mA/μSec	8~500 mA/μSec	0.8~50 mA/μSec	8.0~500 mA/μSec	1.0~62.5 mA/μSec	10.0~625 mA/μSec
Accuracy	± (5% OF SETTING) ± 10μS									
VOLTAGE READBACK (V METER)										
Range	6.0 V	60.0 V	6.0 V	60.0 V	30.0 V	250.0 V	60.0 V	500.0 V	6.0 V	60.0 V
Resolution	0.0001V	0.001V	0.0001V	0.001V	0.001V	0.01V	0.001V	0.01V	0.0001V	0.001V
Accuracy	± 0.025% OF (READING + RANGE)									
CURRENT READBACK (A METER)										
Range	3.0 A	30.0 A	6.0 A	60.0 A	1.2 A	12.0 A	1.2 A	12.0 A	1.5 A	15.0 A
Resolution	0.0001 A	0.001 A	0.0001 A	0.001 A	0.00002 A	0.0002 A	0.00002 A	0.0002 A	0.000025 A	0.00025 A
Accuracy	± 0.1% OF (READING + RANGE)									
Current Monitor	FULL SCALE 10V									
Accuracy	0.5% OF (SETTING + RANGE)									
Current Program Input	FULL SCALE 10V									
Programmable Short	BUILT – IN									
Load On Voltage	0.1 ~ 25 V		0.1 ~ 25 V		0.2 ~ 50 V		0.4 ~ 100V		0.1 ~ 25 V	
Accuracy	1% of (Setting + Range)									
Load Off Voltage	0 ~ 25 V		0 ~ 25 V		0 ~ 50 V		0 ~ 100V		0 ~ 25 V	
Accuracy	0.025% of (Setting + Range)									
Typical Short Resistance	0.02 Ω		0.0083 Ω		0.08 Ω		0.5 Ω		0.02 Ω	
Max.short Current	30 A		60 A		12 A		12 A		15 A	

Input AC Power : 115/230 Vac ±10%, 50/60Hz

Cooling : Advanced Fan Cooled

Order Information

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3.7kg
W=108mm
H=143mm
D=412mm

DC Electronic Load Mainframe

Optional interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card
Optional feature : BMS protection function test



5.5kg
W=160mm
H=177mm
D=452mm



7.5kg
W=269mm
H=177mm
D=452mm



9.3kg
W=440mm
H=177mm
D=445mm