AFV-P series

High Performance Programmable AC Power Source



Multiple Simulation Functions

- Fast Response Time: ≤ 300uS
- AC POWER CORP

- 600VA to 5kVA only in 2U or 5U
- Low THD: ≦ 0.3% at <100Hz
- for Disturbance Tests
- Complete Interface Options: RS232/RS485/Ethernet/USB/GPIB
- User-friendly Control Software



Preen

AFV-P series

High Performance Programmable AC Power Source

Preen AFV-P series is a programmable AC power supply featuring DC output capability and precision measurement. This compact power source comes in four power levels, 600VA, 1250VA, 2500VA and 5000VA, providing clean power with distortion less than 0.3% at 50/60Hz. It delivers output voltage 0-310VAC and frequency 40-500 Hz (opt. 15-1000 Hz). The AFV-P is ideal for commercial, defense and aerospace test applications from design verification, quality assurance, ATE to mass production.

CE

USB

Standard

RS485

Ethernet

RS232

Optional -

GPIB

Analog

With a total of 1200 Steps in 50 built-in Memories, users can easily use the AFV-P for testing various voltage and frequency combinations to simulate global AC power conditions or by adding Transient feature, extreme gird fluctuations, such as surge, sag, spikes and dropouts, can easily be configured. Having the state-of-the-art PWM technology, the AFV-P series is capable of delivering up to 4.5 times of peak current from its max. rated current that makes it ideal for inrush current test. Users can define the starting and ending phase angle from 0 to 360 degrees.

The AFV-P series comprises measurement features of rms voltage, rms current, true power, apparent power, power factor, crest factor, reactive power and etc. Its 5" touch screen with rotary knob allows quick adjustments and configurations of voltage, current, and frequency. Users can also remotely control the AC source via standard interfaces of USB,

RS232/RS485, LAN or optional GPIB and analog control. Free control software and LabVIEW driver are available for easy programming and remote control.

Compact & High Power Density AC Source with DC Output /5U 2, U: 600VA / 1250VA / 2500VAU: 5000VA Extend the applications to DC testing Ideal for Inrush Current Applications Wide Output Voltage & Frequency 5-100017 Capable of delivering up to 4.5 times peak/rms of peak current from RMS current

Low Distortion (THD)



 $\leq 0.3\%$ THD is only <0.3% when output is <100Hz

10. RS232 / RS485

IEC-61000-4-11 AFV-P is an ideal solution for pre-

compliance tests.

PANEL DESCRIPTION

- 1. Power Switch
- 2. Touch Screen HMI
- 3. Rotary Knob
- 4. Output / Reset
- 5. AC Output Socket
- 6. Output Terminals
- 7. Remote Sense
- 8 USB Interface
- 9. Ethernet Interface

- 11. Input Voltage Selector 12. PLC Remote In/Out
- 13. USB Interface (for firmware update)
- 14. Sync. Singal I/O
- 15. Input Socket *



Pre-compliance Tests

* AFV-P-1250, AFV-P-2500, AFV-P-5000 have input terminals.

AC POWER CORP.

Maximize your devices' reliability with Preen's AFV-P series programmable AC source.



Programmable Simulations: Transient Feature



Through the Transient feature, user can have more control over the waveform by inserting disturbance at user-defined locations with user-defined drop/rise range. This is a useful feature to simulate different pre-compliance tests and various types of power line disturbance, such as surge, sag, spike and dropout, for immunity tests.

Complete Communication Interfaces & Control Software



The AFV-P series is equipped with communication interfaces of USB, Ethernet, RS232, and RS485, so users no longer need to spend extra on remote interface card. Only GPIB and analog are optional interfaces. AFV-P also provides control software with comprehensive programming features and LabView driver, which help users to easily control the AC source without further needs of programming.

Intuitive Touch Screen Control



To create a complex sequence on the local control HMI is no longer a difficult task for AFV-P series. The 5 inches touch screen provides users a clear measurement display and an easy set up for parameters. AFV-P is also equipped with a rotary knob for better fine tune adjustments. Touch screen lock is available to avoid maloperation.

Wide Applications

AFV-P is ideal for power adapters testing by varying frequency and voltage during manufacturing test to represent different real-world grid conditions. AFV-P's output frequency can go up to 1000Hz, which is suitable to test avionic devices with 400Hz or 800Hz. The power line disturbance features, such as Step, Ramp, or Transient, allow the user to build a wide range of waveforms in a sequence to simulate grid faults and fluctuations, and these can also be easily configured by control software of AFV-P.



Key Features of AFV-P Series



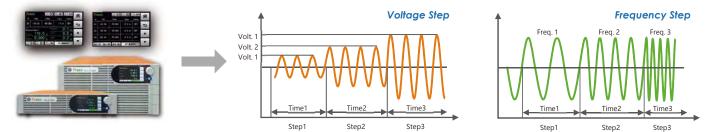


AC Output & DC Output

The AFV-P series not only provide AC output to simulate real-world grid conditions, but also can generate DC output based on user's settings. This DC output feature extends the applications to DC component testing and help user to effectively reduce the cost of purchasing another DC power supply. It is a ideal power testing solution for R&D and certification laboratories.

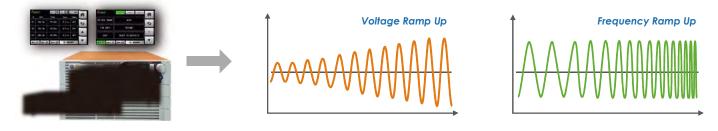
Programmable Simulation Functions: Step & Ramp Features Step Feature

Through AFV-P's intuitive programmable feature settings page, user can create complex sequences by linking up to 1200 self-defined Steps in 50 Memories. Each Step's voltage, frequency and hold time can be defined independently, and users can set start Step and end Step to simulate grid voltage fluctuations or ON/OFF test. Because of its fast response time, AFV-P can finish the Step change in less than a cycle and provide user a reliably AC power simulation.



Ramp Feature

Ramp feature allows users to define slew rate of voltage and frequency at each Step. Users can set the rise/fall time, unit of time and voltage/frequency change between Steps to create a wide range of waveform. Additionally, Ramp feature can also effectively reduce the inrush current during motor or compressor startup by decreasing the slew rate, and save the cost on selecting an AC source with much higher output power for inductive-type loads.



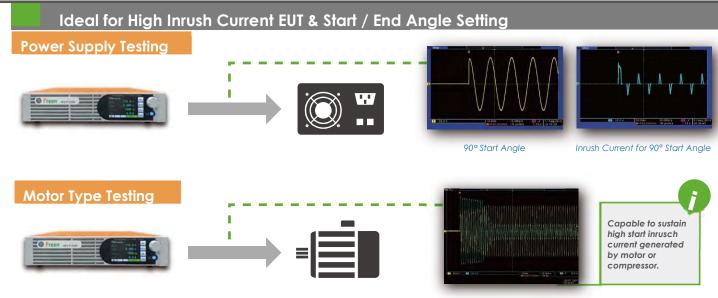
Over Current Foldback

When it comes to over current, AFV-P series offers more than just output shutdown protection. Over current foldback feature enables AFV-P to maintain the output current at the set current limit value and decrease the output voltage as the load impedance increases. It is an extended protection feature or an alternative to provide constant current for EUT.

Remote Sense Feature

AFV-P's remote sensing feature provides voltage drop compensation when it comes to output voltage decrease due to the cable length. AFV-P can automatically correct the reduced voltage and deliver accurate voltage to ensure stable voltage conditions.

Preen



The AFV-P series can provide up to 4.5 times of peak current from its maximum rated current, which is ideal for inrush current test, such as electric motor test. Additionally, the AFV-P series allows user to set the start angle/end angle for the product output, which is suitable for testing switching power supplies.

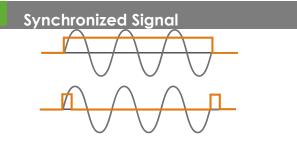
Waveform Display & Comprehensive Measurement Capability

Through built-in measurement circuitries and advanced firmware design, Preen AFV-P series is capable to provide output waveform display and precise measurements, which help users to have a visual image of waveform



and easily browse the readings of RMS voltage, output frequency, RMS current, peak current, apparent power (VA), active power (W), reac power (VAR), power factor and crest factor. Additionally, the measurement report can be exported via AFV-P's control software

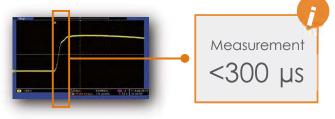
to better analyze or track EUT's performance.



5V DC Synchronized Signal

Preen AFV-P series provides two types of synchronized signal. It can either deliver a 5V DC signal continuously while output is on or deliver a 5V DC pulse every time there is a change on voltage or frequency. This feature makes AFV-P an ideal AC source when applying with automatic test systems.





For tests like sags, surges, dropouts, or spikes, slew rate is a critical factor. AFV-P series is a high performance AC source that has a high slew rate of less than 300 μ s from 0~90% output voltage. It allows users to do pre-compliance test such as IEC-61000-4-11 or MIL-STD-704F.

Distributed by: Reliant EMC LLC, 3311 Lewis Ave, Signal Hill CA 90755, 408-916-5750, www.reliantemc.com

SPECIFICATIONS

Model		AFV-P-600	AFV-P-1250	AFV-P-2500	AFV-P-5000
Phase		T		Single	
		00.133046.41	the case of the	Single	75 225145
Voltage Frequency		98~132VAC / 196~264VAC 196~264VAC or 175~235VAC 47 Hz - 63 Hz (opt. 400Hz)			
Max. Current		104			101
Max. Current		10A	20A	20A	40A
	VA	600VA	1250VA	2500VA	5000VA
Power	W	500W	1000W	2000W	4000W
Phase	vv	5001		2 Wire + G	400011
Voltage Ranges		0 - 155Vrms / 0 - 310Vrms, user selectable			
Voltage Resolution		0.1Vrms			
Frequency		40-500Hz (opt. 15-1000Hz)			
Frequency Resolution		0.1Hz, 1Hz at >100Hz			
Max. Current (RMS)		5A / 2.5A	10A/5A	20A/10A	40A / 20A
Max. Current (Peak)		22.5A/11.3A	45A / 22.5A	90A / 45A	180A / 90A
Total Harmonic Disto	rtion men			90A / 45A Hz, ≦0.8% at 501-1000Hz (Resistive I	
	nation (THD)	≥0.5% at	E State Read of the second state	HZ, ≦0.8% at 501-1000HZ (Resistive t ± 0.1V	-0d0)
Line Regulation		± 0.1∨ ≤0.07% F.S. (Resistive Load)			
Load Regulation					
Response Time		<u>≤300uS</u>			
Crest Factor		<u>≧</u> 3			
Inrush Current			≥ 4.5 times of ma	ax. output current (r.m.s)	
Power	T	300W	600W	1250W	2500W
Voltage Ranges		50000		V / 0 - 420V	250077
Max. Current		2.5A/1.25A	5A / 2.5A	10A/5A	20A/10A
Ripple & Noise (RMS)		2.50/1250	≤ 0.15%	106/36	≤ 0.24%
http://www.eleviter	/		20.1376		≥ 0.2470
Voltage Range		1	0-	420Vrms	
Voltage Accuracy		±(0.2% of reading + 5 counts)			
Voltage Resolution		1		0.1V	
and the second se		15 - 1000Hz			
Frequency Range		±0.1Hz at 40.0 - 500Hz, ±0.2Hz at 501 - 1000Hz			
Frequency Range Frequency Accuracy				Hz. ±0.2Hz at 501 - 1000Hz	
Frequency Accuracy	1		±0.1Hz at 40.0 - 500H		
Frequency Accuracy Frequency Resolution	1	Hir 1 - 12A / I.o.	±0.1Hz at 40.0 - 500H	0.1Hz	Hi: 0.05A - 48.00A
Frequency Accuracy Frequency Resolution Current Range	1	Hi: 1 - 12A / Lo. ±(1% of readin	±0.1Hz at 40.0 - 500H 0.005 - 1.2A	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A	Hi: 0.05A - 48.00A
Frequency Accuracy Frequency Resolutior Current Range Current Accuracy	3		±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H	0.1Hz	01 - 1000Hz *2
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution	1	±(1% of readin	±0.1Hz at 40.0 - 500H 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50	01 - 1000Hz *2 Hi: 0.01A
Frequency Accuracy Frequency Resolutior Current Range Current Accuracy Current Resolution Peak Current Range		±(1% of readin 0 - 4	±0.1Hz at 40.0 - 500H 0.0005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A	01 - 1000Hz *2 Hi: 0.01A 0 - 180A
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accurac	-y	±(1% of readin 0 - 4	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz	01 - 1000Hz *2 Hi: 0.01A 0 - 180A
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accurac Peak Current Resolut	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ig + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts)
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accurac Peak Current Resolut Power Range	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accurac Peak Current Resolut Power Range Power Accuracy	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ng + 10 counts) @ 40 - 500H	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accurace Peak Current Resolut Power Range Power Accuracy Power Resolution	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accuracy Power Range Power Accuracy Power Resolution	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ng + 10 counts) @ 40 - 500H	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accuracy Peak Current Resolut Power Range Power Accuracy Power Accuracy Power Resolution	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readin	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ng + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W z, ±(2% of reading + 15 counts) @ 50	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accuracy Peak Current Resolut Power Range Power Accuracy Power Resolution CENETAL Efficiency Protection	-y	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readin	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ng + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ng + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W OVP, OCP, LVP, C	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W Z, ±(2% of reading + 15 counts) @ 50 ≥ 80% at max. power	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz Hi: 1W
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accurace Peak Current Resolut Power Range Power Accuracy Power Accuracy Power Resolution CHYECOL Efficiency Protection Remote Interface	ion	±(1% of readin 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readin	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ig + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ig + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W OVP, OCP, LVP, C / RS485 / Ethernet / USB / PI	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W z, ±(2% of reading + 15 counts) @ 50 ≥ 80% at max. power DPP, OTP, RCP, Fan Fail	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz Hi: 1W
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accuracy Peak Current Resolut Power Range Power Accuracy Power Resolution CENETAL Efficiency Protection Remote Interface Over Current Foldbac	ion	±(1% of readir 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readir ≥ 77% at max. power Standard: RS232	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ig + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ig + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W OVP, OCP, LVP, O / RS485 / Ethernet / USB / PI CC Mode (C	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A z, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W z, ±(2% of reading + 15 counts) @ 50 ≥ 80% at max. power DPP, OTP, RCP, Fan Fail LC Remote In&Out, Optional: GPIB / Constant Current)	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz Hi: 1W
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accuracy Peak Current Resolut Power Range Power Accuracy Power Accuracy Power Resolution CEVEPCE Efficiency Protection Remote Interface Over Current Foldbac Output Sync Signal	ion	±(1% of readir 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readir ≥ 77% at max. power Standard: RS232	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ing + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ing + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W OVP, OCP, LVP, C / R5485 / Ethernet / USB / PI CC Mode (C vent for Voltage or Frequence	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W z, ±(2% of reading + 15 counts) @ 50 ≥ 80% at max. power DPP, OTP, RCP, Fan Fail LC Remote In&Out, Optional: GPIB / Constant Current) cy Change (Output signal 5V , BNC type)	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz Hi: 1W
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Range Peak Current Accuracy Power Range Power Accuracy Power Accuracy Power Resolution CEVE*+L Efficiency Protection Remote Interface Over Current Foldbac Output Sync Signal Memories	cy ion	±(1% of readir 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readir ≥ 77% at max. power Standard: RS232	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ig + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ig + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W OVP, OCP, LVP, C / RS485 / Ethernet / USB / PI CC Mode (C vent for Voltage or Frequence 50 Memories & 1200	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W z, ±(2% of reading + 15 counts) @ 50 ≥ 80% at max. power DPP, OTP, RCP, Fan Fail LC Remote In&Out, Optional: GPIB / Constant Current) cy Change (Output signal 5V , BNC ty) 0 Steps (24 Steps/Memory)	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz Hi: 1W Analog Control
Frequency Accuracy Frequency Resolution Current Range Current Accuracy Current Resolution Peak Current Range Peak Current Accuracy Peak Current Resolut Power Range Power Accuracy Power Resolution CENETOR Efficiency Protection Remote Interface Over Current Foldbac	ck	±(1% of readir 0 - 4 ±(1% of reading + 5 counts) a Hi: 100 - 1200W ±(2% of readir ≥ 77% at max. power Standard: RS232	±0.1Hz at 40.0 - 500H : 0.005 - 1.2A ig + 5 counts) at 40.0 - 500H Hi: 0.01A / Lo: 0.001A 5A t 40.0 - 500Hz, ±(1% of readi / Lo: 0 - 120W ig + 10 counts) @ 40 - 500H Hi: 1W / Lo: 0.1W OVP, OCP, LVP, O / RS485 / Ethernet / USB / PI CC Mode (C vent for Voltage or Frequenc 50 Memories & 1200 0%	0.1Hz Hi: 2 - 24A / Lo: 0.005 - 2.4A Iz, ±(1% of reading + 10 counts) at 50 0 - 90A ing + 10 counts) at 501 - 1000Hz 0.1A Hi: 200 - 2400W / Lo: 0 - 240W z, ±(2% of reading + 15 counts) @ 50 ≥ 80% at max. power DPP, OTP, RCP, Fan Fail LC Remote In&Out, Optional: GPIB / Constant Current) cy Change (Output signal 5V , BNC type)	01 - 1000Hz *2 Hi: 0.01A 0 - 180A ±(1% F.S.+ 5 counts) Hi: 0 - 4800W 01 - 1000Hz Hi: 1W Analog Control

*1 All specifications are subject to change without notice. *2 AFV-P-2500 is ±(1% FS + 5 counts).