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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- ▶ high - quality
- ▶ moderate prices
- ▶ excellent precision

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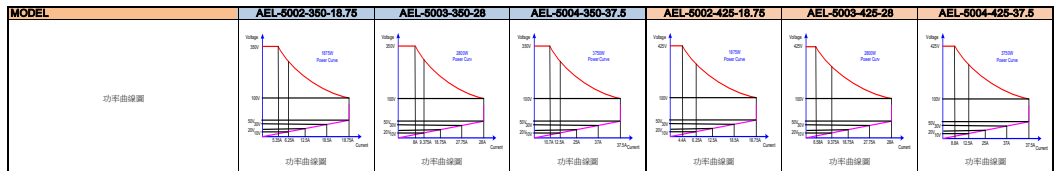
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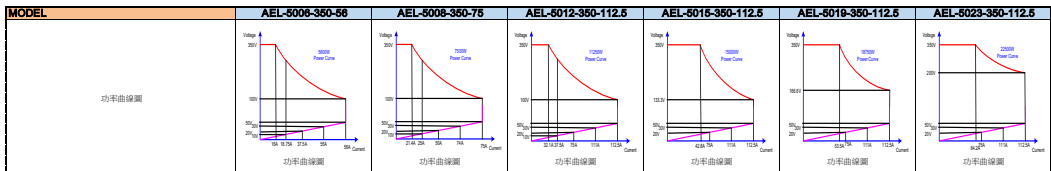
MODEL	AEI-6002-360-18.75	AEI-6003-360-28	AEI-6004-350-37.5	AEI-6002-425-18.75	AEI-6003-425-28	AEI-6004-425-37.5	
Power (W)	1875 W	2800W	3750 W	1875 W	2800W	3750 W	
Current(Ampere)	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak	37.5 Arms / 112.5Apeak	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak	37.5 Arms / 112.5Apeak	
Voltage(Volt)	50-350Vrms / 500Vdc			50-425Vrms / 600Vdc			
FREQUENCY Range	DC,40-440Hz(CCP Mode), DC-440Hz(LIN,CR, CV Mode)			DC,40-440Hz(CCP Mode), DC-440Hz(LIN,CR, CV Mode)			
PROTECTIONS							
Over Power Protection	≈ 1968.75Wrms or	≈ 2940Wrms or Programmable	≈ 3937.5Wrms or Programmable	≈ 1968.75Wrms or Programmable	≈ 2940Wrms or Programmable	≈ 3937.5Wrms or Programmable	
Over Current Protection	≈ 19.687 Arms or	≈ 29.4 Arms or Programmable	≈ 39.375 Arms, or	≈ 19.687 Arms or Programmable	≈ 29.4 Arms or Programmable	≈ 39.375 Arms, or Programmable	
Over Voltage Protection	≈ 367.5 Vrms / 528Vdc			≈ 446.25 Vrms/630Vdc			
Over Temp. Protection	Yes			Yes			
OPERATION MODE							
Constant Current Mode for Sine-Wave							
Range	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
Resolution	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits	
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ DC and			± (0.1% of setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ DC and			
Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave							
Range	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
Resolution	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits	
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ DC and			± (0.1% of setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ DC and			
Constant Resistance Mode							
Range	3.2 ohm ~ 64K ohm	2.0 ohm ~ 40K ohm	1.6 ohm ~ 32K ohm	3.2 ohm ~ 64K ohm	2.0 ohm ~ 40K ohm	1.6 ohm ~ 32K ohm	
Resolution*1	0.0052083mS/16bits	0.0083333mS/16bits	0.010416mS/16bits	0.0052083mS/16bits	0.0083333mS/16bits	0.010416mS/16bits	
Accuracy	±0.2% of (setting + range) @ 50/60Hz, ± 0.5% of setting + 2% of range) @ DC and			±0.2% of (setting + range) @ 50/60Hz, ± 0.5% of setting + 2% of range) @ DC and			
Constant Voltage Mode							
Range	50-350Vrms / 500Vdc			50-425Vrms / 600Vdc			
Resolution	0.01V			0.1V			
Accuracy	±(0.1% of setting + 0.1% of range)			±(0.1% of setting + 0.1% of range)			
Constant Power Mode							
Range	1875W	2800W	3750W	1875W	2800W	3750W	
Resolution	0.1W	0.1W	0.1W	0.1W	0.1W	0.1W	
Accuracy*4	±0.5% of (setting + range) @ 50/60Hz, ±2% of (setting + range)			±0.5% of (setting + range) @ 50/60Hz, ±2% of (setting + range)			
CREST FACTOR (CC & CP MODE ONLY)							
Range	v2-5			v2-5			
Resolution	0.1			0.1			
Accuracy	(0.5% / lms) + 1% F.S.			(0.5% / lms) + 1% F.S.			
POWER FACTOR (CC & CP MODE ONLY)							
Range	0-1 Lag or Lead			0-1 Lag or Lead			
Resolution	0.01			0.01			
Accuracy	1% F.S.			1% F.S.			
TEST MODE							
UPS Efficient Measurement							
Operating Frequency	Non-Linear Mode Auto: 40-440Hz			Non-Linear Mode Auto: 40-440Hz			
Current Range	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
PF Range	0-1			0-1			
MEASURING EFFICIENCY FOR PV SYSTEMS							
Operating Frequency	Resistive + Non-Linear Mode Auto: 40-440Hz			Resistive + Non-Linear Mode Auto: 40-440Hz			
Current Range	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
Resistive Range	3.2 ohm ~ 64K ohm	2.0 ohm ~ 40K ohm	1.6 ohm ~ 32K ohm	3.2 ohm ~ 64K ohm	2.0 ohm ~ 40K ohm	1.6 ohm ~ 32K ohm	
UPS Back-Up function(CC,LIN,CR,CP)							
UVP (VTH)	50-350Vrms / 500Vdc			50-425Vrms / 600Vdc			
UPS Back-Up Time	1-99999 Sec. (>27H)			1-99999 Sec. (>27H)			
Battery Discharge function(CC,LIN,CR,CP)							
UVP (VTH)	50-350Vrms / 500Vdc			50-425Vrms / 600Vdc			
Battery Discharge Time	1-99999 Sec. (>27H)			1-99999 Sec. (>27H)			
UPS Transfer Time							
Current Range	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
UVP (VTH)	2.5V			2.5V			
Time range	0.15ms~999.99ms			0.15ms~999.99ms			
Fuse Test mode							
Max. Current	Turbo OFF(CC1-3) Turbo ON(CC3)	18.75Arms	28.0Arms	37.5Arms	18.75Arms	28.0Arms	
Trip & Non-Trip Time	Turbo ON(CC1-2) Turbo OFF(Time1-3) Turbo ON(Time1-2) Turbo ON(Time3)	37.5Arms (x2) *3 0.01-333.33sec. 0.01-0.5sec. 0.01-600.00sec.	56.0Arms (x2) *3 0.01-333.33sec. 0.01-0.5sec. 0.1-999.9 Sec.	75.0Arms (x2) *3 0.01-333.33sec. 0.01-0.5sec. 0.1-999.9 Sec.	37.5Arms (x2) *3 56.0Arms (x2) *3 0.01-333.33sec. 0.1-999.9 Sec.	75.0Arms (x2) *3 56.0Arms (x2) *3 0.01-333.33sec. 0.1-999.9 Sec.	
OFF Time	0-999.9 Sec.			0-999.9 Sec.			
Meas. Accuracy	±0.003 Sec.			±0.003 Sec.			
Repeat Cycle	0-99999			0-99999			
Short/OPP/OCF Test Function							
Short Time	Turbo OFF Turbo ON	0.1S ~ 10Sec. Or Cont. 0.1S ~ 1Sec			0.1S ~ 10Sec. Or Cont. 0.1S ~ 1Sec		
OPP/OCF Step Time	Turbo OFF Turbo ON	100ms 100ms up to 10 Steps			100ms 100ms up to 10 Steps		
OCF Istop	Turbo OFF Turbo ON	18.75Arms 37.5Arms	28.0Arms 56.0Arms	37.5Arms 75.0Arms	18.75Arms 37.5Arms	28.0Arms 56.0Arms	
OPP Pstop	Turbo OFF Turbo ON	1875W 3750W	2800W 5600W	3750W 7500W	1875W 3750W	2800W 5600W	
Programmable Inrush current emulation: Istart - Istop / Teep							
Istart Inrush Start Current	0-37.5A	0-56A	0-75A	0-37.5A	0-56A	0-75A	
Inrush Step time	0-18.75A	0.1ms-100ms	0-37.5A	0-18.75A	0.1ms-100ms	0-37.5A	
Istop Inrush stop current	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
Programmable Surge current emulation: S1/T1 - S2/T2 - S3/T3							
S1 and S2 Current	0-37.5A	0-56A	0-75A	0-37.5A	0-56A	0-75A	
T1 and T2 Time	0-18.75A	0.01S-0.5Sec.	0-37.5A	0-18.75A	0.01S-0.5Sec.	0-37.5A	
S3 Current	0-18.75A	0-28A	0-37.5A	0-18.75A	0-28A	0-37.5A	
T3 Time	0.01S ~ 9.99Sec. Or Cont.			0.01S ~ 9.99Sec. Or Cont.			
MEASUREMENTS							
VOLTAGE READBACK METER							
Range	500V			600V			
Resolution	0.01V			0.01V			
Accuracy	±0.05% of (reading + range)			±0.05% of (reading + range)			
Parameter	Vrms,V Max/Min,+Vpk			Vrms,V Max/Min,+Vpk			
CURRENT READBACK A METER							
Range	9.375Arms/18.75Arms	14Arms/28Arms	18.75Arms/37.5Arms	9.375Arms/18.75Arms	14Arms/28Arms	18.75Arms/37.5Arms	
Resolution	0.2mA/0.4mA	0.3mA/0.6mA	0.4mA/0.8mA	0.2mA/0.4mA	0.3mA/0.6mA	0.4mA/0.8mA	
Accuracy	±0.05% of (reading + range) @ 50/60Hz			±0.05% of (reading + range) @ 50/60Hz			
Parameter	Irms,I Max/Min,+Ipk			Irms,I Max/Min,+Ipk			
WATT READBACK W METER							
Range	1875W	2800W	3750W	1875W	2800W	3750W	
Resolution	0.03125W	0.05W	0.0625W	0.03125W	0.05W	0.0625W	
Accuracy*4	±0.5% of (reading + range) @ 50/60Hz, ±2% of (reading + range)			±0.5% of (reading + range) @ 50/60Hz, ±2% of (reading + range)			
VA METER	Vrms*Arms Correspond To Vrms and Arms			Vrms*Arms Correspond To Vrms and Arms			
Power Factor METER							
Range	+/- 0.000-1.000			+/- 0.000-1.000			
Accuracy	±0.002±(0.001PF)*F			±0.002±(0.001PF)*F			
Frequency METER(V)							
Range	DC,40-440Hz			DC,40-440Hz			
Accuracy	0.1%			0.1%			
Other Parameter METER							
	VA, VAR, CF, I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, VTHD						
OTHERS							
Start up loading	Yes. Power on loading during Inverter / UPS start up			Yes. Power on loading during Inverter / UPS start up			
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading			0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading			
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge of Leading edge current waveform can be			Positive or Negative half cycle, 90° Trailing edge of Leading edge current waveform can be			
Master/Slave(3 phase or Parallel application)	Yes, 1 master and upto 7 slave units			Yes, 1 master and upto 7 slave units			
External programming input(OPTION)	F, S / 10Vdc, Resolution 0.1V			F, S / 10Vdc, Resolution 0.1V			
External SYNC input	TTL			TTL			
Vmonitor (Isolated)	±500V / ±10V			±600V / ±10V			
Imonitor (Isolated)	±56.25Apk / ±10Vpk	±84Apk / ±10Vpk	±112.5Apk / ±10Vpk	±56.25Apk / ±10Vpk	±84Apk / ±10Vpk	±112.5Apk / ±10Vpk	
Interface (OPTION)	GPIB ; RS-232 ; LAN ; USB			GPIB ; RS-232 ; LAN ; USB			
MAX. Power consumption	150VA			150VA			
Operation Temperature *2	0 ~ 40 °C			0 ~ 40 °C			
Current of input impedance(A) @ 50/60Hz : @	-V*0.3 ; -V*2.2	-V*0.45 ; -V*3.3	-V*0.6 ; -V*4.4	-V*0.3 ; -V*2.2	-V*0.45 ; -V*3.3	-V*0.6 ; -V*4.4	
Dimension(H x W x D)	177 x 440 x 552.6 mm	177 x 440 x 552.6 mm	177 x 440 x 552.6 mm	177 x 440 x 552.6 mm	177 x 440 x 552.6 mm	177 x 440 x 552.6 mm	
Weight	21.5kg	27.5kg	33.5kg	21.5kg	27.5kg	33.5kg	

*1 ms (millisemens) is the unit of conductance(G), one siemens equal to 1/G
*2 Operating temperature range is 0-40°C, all specification apply for 25°C±5°C. Except as noted
*3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/DC/OPP test function
*4 The specification apply for current less than 20Arms
* All specifications apply for 50/60Hz.
* All specifications subject to change without notice.



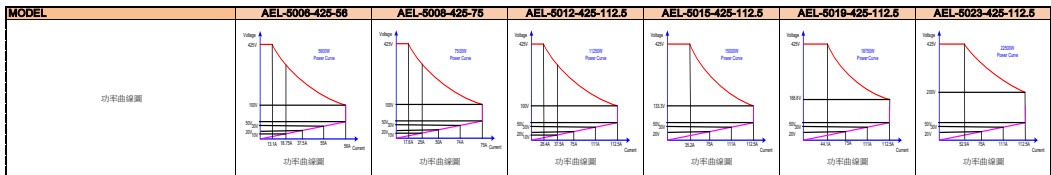
MODEL	AEL-5008-360-56	AEL-5008-360-75	AEL-5012-360-112.5	AEL-5015-360-112.5	AEL-5018-360-112.5	AEL-5023-360-112.5
Power (W)	5600 W	7500 W	11250 W	15000 W	18750 W	22500 W
Current(Amps)	56 Arms / 168Apeak	75 Arms / 225Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak
Voltage(Volt)	50-350Vrms / 500Vdc					
FREQUENCY Range	DC,40~40Hz(CC,CP Mode), DC~440Hz(LIN,CR,CV Mode)					
PROTECTIONS						
Over Power Protection	≈ 5880Wrms or Programmable	≈ 7875Wrms or Programmable	≈ 11812.5Wrms or Programmable	≈ 11812.5Wrms or Programmable	≈ 19687.5Wrms or Programmable	≈ 23625Wrms or Programmable
Over Current Protection	≈ 58.8 Arms, or Programmable	≈ 78.75 Arms, or Programmable	≈ 118.125 Arms or Programmable	≈ 118.125 Arms or Programmable	≈ 118.125 Arms or Programmable	≈ 118.125 Arms or Programmable
Over Voltage Protection	≈ 367.5 Vrms/525Vdc					
Over Temp. Protection	Yes					
OPERATION MODE						
Constant Current Mode for Sine-Wave						
Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ DC and 400Hz					
Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave						
Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ DC and 400Hz					
Constant Resistance Mode						
Range	1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
Resolution*1	0.016666mS/16bits	0.020832mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits
Accuracy	± 0.2% of (setting + range) @ 50/60Hz, ± (0.5% of setting + 2% of range) @ DC and 400Hz					
Constant Voltage Mode						
Range	50-350Vrms / 500Vdc					
Resolution	0.1V					
Accuracy	± 0.2% of (setting + range) @ 50/60Hz					
Constant Power Mode						
Range	5600W	7500W	11250W	15000 W	18750W	22500W
Resolution	0.1W	0.1W	1W	1W	1W	1W
Accuracy	± 0.5% of (setting + range) @ 50/60Hz, ± 2% of (setting + range)					
CREST FACTOR (CC & CP MODE ONLY)						
Range	2~5					
Resolution	0.1					
Accuracy	(0.5% / rms) + 1% F.S.					
POWER FACTOR (CC & CP MODE ONLY)						
Range	0~1 Lag or Lead					
Resolution	0.01					
Accuracy	1% F.S.					
TEST MODE						
UPS Efficient Measurement						
Operating Frequency	Non-Linear Mode Auto: 40~440Hz					
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
PF Range	0~1					
MEASURING EFFICIENCY FOR PV SYSTEMS,						
Operating Frequency	Resistive + Non-Linear Mode Auto: 40~440Hz					
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Resistive Range	1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
UPS Back-Up function(CC,LIN,CR,CP)						
UVP (VTH)	50-350Vrms / 500Vdc					
UPS Back-Up Time	1~99999 Sec. (>2H)					
Battery Discharge function(CC,LIN,CR,CP)						
UVP (VTH)	50-350Vrms / 500Vdc					
Battery Discharge Time	1~99999 Sec. (>2H)					
UPS Transfer Time						
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
UVP (VTH)	2.5V					
Time range	0.15ms~999.99ms					
Fuse Test mode						
Max. Current	Turbo OFF(CC1~3) Turbo ON(CC3)	56Arms 112Arms (x2) *2	75Arms 150Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3
Trip & Non-Trip Time	Turbo OFF(Time1~3) Turbo ON(Time1~2) Turbo ON(Time3)	0.01~333.333sec. 0.01~0.509sec. 0.01~600.00sec. 0.1~999.9 Sec.				
OFF Time	0.01~600.00sec.					
Meas. Accuracy	± 0.003 Sec					
Repeat Cycle	0~99999					
Short/OVP/OCP Test Function						
Short Time	Turbo OFF Turbo ON	0.1S ~ 10Sec. Or Cont. 0.1S ~ 1Sec				
OVP/OCP Step Time	Turbo OFF Turbo ON	100ms, up to 10 Steps				
OCP Isotp	Turbo OFF Turbo ON	56Arms 112Arms	75Arms 150Arms	112.5Arms 225Arms	112.5Arms 225Arms	112.5Arms 225Arms
OVP Pstab	Turbo OFF Turbo ON	5600W 11200W	7500W 15000W	11250W 22500W	15000W 30000W	18750W 37500W
Programmable Inrush current simulation: Isstart / Isstop						
Isstart, Inrush Start Current	0-112A	0-150A	0-225A	0-225A	0-225A	0-225A
Inrush Step time	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Isstop, Inrush stop current	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3						
S1 and S2 Current	0-112A	0-150A	0-225A	0-225A	0-225A	0-225A
T1 and T2 Time	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
S3 Current	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
T3 Time	0.01S ~ 9.99Sec. Or Cont.					
MEASUREMENTS						
VOLTAGE READBACK A METER						
Range	500V					
Resolution	0.01V					
Accuracy	± 0.05% of (reading + range)					
Parameter	Vrms, V Max/Min, +Vpk					
CURRENT READBACK A METER						
Range	28Arms/56Arms	37.5Arms/75Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms
Resolution	0.6mA/1.2mA	0.8mA/1.6mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA
Accuracy	± 0.1% of (reading + range) @ 50/60Hz					
Parameter	I rms, I Max/Min, +Ipk					
WATT READBACK W METER						
Range	5600W	7500W	11250W	15000W	18750W	22500W
Resolution	0.1W	0.125W	0.1875W	0.25W	0.3125W	0.375W
Accuracy	± 0.5% of (reading + range) @ 50/60Hz, ± 2% of (reading + range)					
VA METER	Vrms×Arms Correspond To Vrms and Arms					
Power Factor METER						
Range	+1.0000~1.0000					
Accuracy	± 0.002±(0.001PF/TF)					
Frequency METER(V)						
Range	DC,40~440Hz					
Accuracy	0.1%					
Other Parameter METER						
	VA, VAR, CF, I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, VTHD					
OTHERS						
Start up loading	Yes, Power on loading during Inverter / UPS start up					
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading					
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed					
Master/Slave(3 phase or Parallel application)	Yes, 1 master and upto 7 slave unit					
External programming input(OPTION)	P/S / 10Vdc, Resolution 0.1V					
External SYNC input	TTL					
Vmonitor (Isolated)	± 500V / ± 10V					
Imonitor (Isolated)	± 168Apk / ± 10Vpk	± 225Apk / ± 10Vpk	± 337.5Apk / ± 10Vpk	± 337.5Apk / ± 10Vpk	± 337.5Apk / ± 10Vpk	± 337.5Apk / ± 10Vpk
Interface (OPTION)	RS-232C, RS-485, LAN, USB					
MAX. Power consumption	270VA	270VA	390VA	510VA	630VA	750VA
Operation Temperature *2	0 ~ 40 °C					
Current of input impedance(A) @ 50/60Hz @400Hz	~V*0.9 ; ~V*6	~V*1.2 ; ~V*8.8	~V*1.8 ; ~V*13.2	~V*2.4 ; ~V*17.6	~V*3.0 ; ~V*22	~V*3.6 ; ~V*26.4
Dimension(H x W x D)	457.8 x 480 x 593 mm	457.8 x 480 x 593 mm	635.7 x 480 x 593 mm	813.5 x 480 x 593 mm	1283 x 600 x 600 mm	1283 x 600 x 600 mm
Weight	58 kg	70 kg	105kg	140kg	260kg	295kg

*1 ms (millisiemens) is the unit of conductance(G), one siemens equal to 1/G.
*2 Operating temperature range is 0~40°C, all specification apply for 25°C±5°C. Except as noted
*3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/OVP/OCP best function
*4 The specification apply for current less than 20Arms
* All specifications apply for 50/60Hz.
* All specifications subject to change without notice.



MODEL	AEI-5008-425-56	AEI-5008-425-75	AEI-5012-425-112.5	AEI-5015-425-112.5	AEI-5018-425-112.5	AEI-5023-425-112.5
Power (W)	5600 W	7500 W	11250 W	15000 W	18750 W	22500 W
Current(Amps)	56 Arms / 168Apeak	75 Arms / 225Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak
Voltage(Volt)	50~425Vrms / 600Vdc					
FREQUENCY Range	DC,40~40Hz(CC,CP Mode), DC~440Hz(LN,CR,CV Mode)					
PROTECTIONS						
Over Power Protection	≈ 5880Wrms or Programmable	≈ 7875Wrms or Programmable	≈ 11812.5Wrms or Programmable	≈ 15750Wrms or Programmable	≈ 19687.5Wrms or Programmable	≈ 23625Wrms or Programmable
Over Current Protection	≈ 58.8 Arms, or Programmable	≈ 78.75 Arms, or Programmable	≈ 118.125 Arms or Programmable	≈ 118.125 Arms or Programmable	≈ 118.125 Arms or Programmable	≈ 118.125 Arms or Programmable
Over Voltage Protection	≈ 446.25 Vrms@30Vdc					
Over Temp. Protection	Yes					
OPERATION MODE						
Constant Current Mode for Sine-Wave						
Range	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz, ±0.5% of (setting + range) @ DC and 400Hz					
Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave						
Range	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits
Accuracy	± (0.1% of setting + 0.2% of range) @ 50/60Hz, ±0.5% of (setting + range) @ DC and 400Hz					
Constant Resistance Mode						
Range	1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
Resolution*1	0.016666mS/16bits	0.020832mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits
Accuracy	±0.2% of (setting + range) @ 50/60Hz, ± (0.5% of setting + 2% of range) @ DC and 400Hz					
Constant Voltage Mode						
Range	50~425Vrms / 600Vdc					
Resolution	0.1V					
Accuracy	±0.2% of (setting + range) @ 50/60Hz					
Constant Power Mode						
Range	5600W	7500W	11250W	15000 W	18750W	22500W
Resolution	0.1W	0.1W	1W	1W	1W	1W
Accuracy	±0.5% of (setting + range) @ 50/60Hz, ±2% of (setting + range)					
CREBT FACTOR (CC & CP MODE ONLY)						
Range	-2~5					
Resolution	0.1					
Accuracy	(0.5% / rms) + 1%F.S.					
POWER FACTOR (CC & CP MODE ONLY)						
Range	0~1 Lag or Lead					
Resolution	0.01					
Accuracy	1%F.S.					
TEST MODE						
UPS Efficient Measurement	Non-Linear Mode					
Operating Frequency	Auto: 40~440Hz					
Current Range	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
PF Range	0~1					
MEASURING EFFICIENCY FOR PV SYSTEMS,	Resistive + Non-Linear Mode					
Operating Frequency	Auto: 40~440Hz					
Current Range	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Resistive Range	1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
UPS Back-Up function(CC,LIN,CR,CP)						
UVP (VTH)	50~425Vrms / 600Vdc					
UPS Back-Up Time	1~99999 Sec. (>2H)					
Battery Discharge function(CC,LIN,CR,CP)						
UVP (VTH)	50~425Vrms / 600Vdc					
Battery Discharge Time	1~99999 Sec. (>2H)					
UPS Transfer Time						
Current Range	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
UVP (VTH)	2.5V					
Time range	0.15ms~999.99ms					
Fuse Test mode						
Max. Current	Turbo OFF(CC1~3) Turbo ON(CC3)	56Arms 112Arms (x2) *2	75Arms 150Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3
Trip & Non-Trip Time	Turbo OFF(Time1~3) Turbo ON(Time1~2) Turbo ON(Time3)	0.01~333.33sec. 0.01~0.50sec. 0.01~600.00sec. 0.1~999.9 Sec.				
OFF Time	0.01~600.00sec.					
Meas. Accuracy	±0.003 Sec					
Repeat Cycle	0~99999					
Short/CPP/OCP Test Function						
Short Time	Turbo OFF Turbo ON	0.1S ~ 10Sec. Or Cont. 0.1S ~ 1Sec				
OPP/OCP Step Time	Turbo OFF Turbo ON	100ms, up to 10 Steps				
OCP Istop	Turbo OFF Turbo ON	56Arms 112Arms	75Arms 150Arms	112.5Arms 225Arms	112.5Arms 225Arms	112.5Arms 225Arms
OPP Pstop	Turbo OFF Turbo ON	5600W 11200W	7500W 15000W	11250W 22500W	15000W 30000W	18750W 37500W
Programmable Inrush current simulation: Istart / Istop / Teap						
Istart, Inrush Start Current	0~112A	0~150A	0~225A	0~225A	0~225A	0~225A
Inrush Step time	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Istop, Inrush stop current	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3						
S1 and S2 Current	0~112A	0~150A	0~225A	0~225A	0~225A	0~225A
T1 and T2 Time	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
S3 Current	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
T3 Time	0.01S ~ 9.99Sec. Or Cont.					
MEASUREMENTS						
VOLTAGE READBACK A METER						
Range	600V					
Resolution	0.01V					
Accuracy	±0.05% of (reading + range)					
Parameter	Vrms, V Max/Min, +Vpk					
CURRENT READBACK A METER						
Range	28Arms/56Arms	37.5Arms/75Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms
Resolution	0.6mA/1.2mA	0.8mA/1.6mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA
Accuracy	±0.1% of (reading + range) @ 50/60Hz					
Parameter	Irms, I Max/Min, +Ipk					
WATT READBACK W METER						
Range	5600W	7500W	11250W	15000W	18750W	22500W
Resolution	0.1W	0.125W	0.1875W	0.25W	0.3125W	0.375W
Accuracy	±0.5% of (reading + range) @ 50/60Hz, ±3% of (reading + range)					
VA METER	Vrms×Arms Correspond To Vrms and Arms					
Power Factor METER						
Range	+1.0000~1.0000					
Accuracy	±(0.002±0.001PF)PF					
Frequency METER(V)						
Range	DC,40~440Hz					
Accuracy	0.1%					
Other Parameter METER	VA, VAR, CF, I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, VTHD					
OTHERS						
Start up loading	Yes, Power on loading during Inverter / UPS start up					
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading					
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed					
Master/Slave(3 phase or Parallel application)	Yes, 1 master and upto 7 slave unit					
External programming input(OPTION)	P/S / 10Vdc, Resolution 0.1V					
External SYNC input	TTL					
Vmonitor (Isolated)	±600V / ±10V					
Imonitor (Isolated)	±168Apk / ±10Vpk	±225Apk / ±10Vpk	±337.5Apk / ±10Vpk	±337.5Apk / ±10Vpk	±337.5Apk / ±10Vpk	±337.5Apk / ±10Vpk
Interface (OPTION)	RS-232C, RS-485, LAN, USB					
MAX. Power consumption	270VA	270VA	390VA	510VA	630VA	750VA
Operation Temperature *2	0 ~ 40 °C					
Current of input impedance(A) @ 50/60Hz @400Hz	-V*0.9 ; -V*6.6	-V*1.2 ; -V*8.8	-V*1.8 ; -V*13.2	-V*2.4 ; -V*17.6	-V*3.0 ; -V*22	-V*3.6 ; -V*26.4
Dimension(H x W x D)	457.8 x 480 x 593 mm	457.8 x 480 x 593 mm	635.7 x 480 x 593 mm	813.5 x 480 x 593 mm	1283 x 600 x 600 mm	1283 x 600 x 600 mm
Weight	58 kg	70 kg	105kg	140kg	260kg	295kg

*1 ms (millisiemens) is the unit of conductance(G), one siemens equal to 1/G.
*2 Operating temperature range is 0~40°C, all specification apply for 25°C±5°C. Except as noted
*3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/CPP/OCP best function
*4 The specification apply for current less than 20Arms
* All specifications apply for 50/60Hz.
* All specifications subject to change without notice.



MODEL	AEL-6003-480-18.75	AEL-6004-480-28
Power (W)	2800W	3750 W
Current(Ampere)	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak
Voltage(Volt)	50-480Vrms / 700Vdc	50-480Vrms / 700Vdc
FREQUENCY Range	DC,40-70Hz(CC,CP Mode), DC-70Hz(LIN,CR,CV Mode)	DC,40-70Hz(CC,CP Mode), DC-70Hz(LIN,CR,CV Mode)
PROTECTIONS		
Over Power Protection	±2940Wrms or Programmable	±3937.5Wrms or Programmable
Over Current Protection	± 18.887 Arms or Programmable	± 28.4 Arms or Programmable
Over Voltage Protection	± 504Vrms / 735Vdc	± 504Vrms / 735Vdc
Over Temp. Protection		Yes
OPERATION MODE		
Constant Current Mode for Sine-Wave		
Range	0-18.75A	0-28A
Resolution	0.3125mA/16bits	0.5mA/16bits
Accuracy	setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ 0	
Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave		
Range	0-18.75A	0-28A
Resolution	0.3125mA/16bits	0.5mA/16bits
Accuracy	setting + 0.2% of range) @ 50/60Hz, ± 0.5% of (setting + range) @ 0	
Constant Resistance Mode		
Range	4 ohm ~ 80K ohm	2.5 ohm ~ 50K ohm
Resolution*1	0.004166mS/16bits	0.006666mS/16bits
Accuracy	±0.2% of (setting + range) @ 50/60Hz, ± 0.5% of setting + 2% of	
Constant Voltage Mode		
Range	50-480Vrms / 700Vdc	
Resolution	0.0125V	
Accuracy	±(0.1% of setting + 0.1% of range)	
Constant Power Mode		
Range	2800W	3750W
Resolution	0.1W	0.1W
Accuracy	±0.5% of (setting + range) @ 50/60Hz, ±2% of (setting + range)	
CREST FACTOR (CC & CP MODE ONLY)		
Range		v2-5
Resolution		0.1
Accuracy		(0.5% / I rms) + 1% F.S.
POWER FACTOR (CC & CP MODE ONLY)		
Range		0-1 Lag or Lead
Resolution		0.01
Accuracy		1% F.S.
TEST MODE		
UPS Efficient Measurement		
Operating Frequency		Non-Linear Mode
Current Range	0-18.75A	0-28A
PF Range		0-1
MEASURING EFFICIENCY FOR PV SYSTEMS		
Operating Frequency		Resistive + Non-Linear Mode
Current Range	0-18.75A	0-28A
Resistive Range	4 ohm ~ 80K ohm	2.5 ohm ~ 50K ohm
UPS Back-Up function(CC,LIN,CR,CP)		
UVP (VTH)		50-480Vrms / 700Vdc
UPS Back-Up Time		1-99999 Sec. (>27H)
Battery Discharge function(CC,LIN,CR,CP)		
UVP (VTH)		50-480Vrms / 700Vdc
Battery Discharge Time		1-99999 Sec. (>27H)
UPS Transfer Time		
Current Range	0-18.75A	0-28A
UVP (VTH)		2.5V
Time range		0.15ms-999.99ms
Fuse Test mode		
Max. Current	Turbo OFF(CC1-3) Turbo ON(CC3)	18.75Arms 28.0Arms
	Turbo ON(CC1-2)	37.5Arms (x2) *3 56.0Arms (x2) *3
Trip & Non-Trip Time	Turbo OFF(Time1-3) Turbo ON(Time1-2) Turbo ON(Time3)	0.01-333.33sec. 0.01-0.50sec. 0.01-600.00sec.
OFF Time		0.1-999.9 Sec.
Meas. Accuracy		±0.003 Sec.
Repeat Cycle		0-99999
Short/OVP/OCP Test Function		
Short Time	Turbo OFF Turbo ON	0.1S ~ 10Sec. Or Cont. 0.1S ~ 1Sec
OVP/OCP Step Time	Turbo OFF Turbo ON	100ms 100ms, up to 10 Steps
OCP Istop	Turbo OFF Turbo ON	18.75Arms 37.5Arms
OCP Pstop	Turbo OFF Turbo ON	2800W 5600W
		28.0Arms 56.0Arms 3750W 7500W
Programmable Inrush current simulation: Istart - Istop / Tstep		
Istart, Inrush Start Current		0-37.5A 0-56A
Inrush Step time		0-18.75A 0-28A
Istop, Inrush stop current		0-18.75A 0-28A
Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3		
S1 and S2 Current		0-37.5A 0-56A
T1 and T2 Time		0-18.75A 0-28A
S3 Current		0-18.75A 0-28A
T3 Time		
MEASUREMENTS		
VOLTAGE READBACK V METER		
Range		700V
Resolution		0.0125V
Accuracy		±0.05% of (reading + range)
Parameter		Vrms,V Max/Min,+/-Vpk
CURRENT READBACK A METER		
Range		9.375Arms/18.75Arms 14Arms/28Arms
Resolution		0.29mA/0.4mA 0.3mA/0.6mA
Accuracy		±0.05% of (reading + range) @ 50/60Hz
Parameter		Irms,I Max/Min,+/-Ipk
WATT READBACK W METER		
Range		2800W 3750W
Resolution		0.05W 0.0625W
Accuracy		±0.5% of (reading + range) @ 50/60Hz, ±2% of (reading + range)
VA METER		Vrms*Arms Correspond To Vrms and Arms
Power Factor METER		
Range		+/- 0.000-1.000
Accuracy		±(0.002+(0.001PF)*F)
Frequency METER(V)		
Range		DC,40-70Hz
Accuracy		0.1%
Other Parameter METER		
		VA, VAR, CF, I, Ipeak, Imax, Imin, Vmax, Vmin, IthD, VthD, IthD, VthD
OTHERS		
Start up loading		Yes, Power on loading during Inverter / UPS start up
Load ON / OFF Angle		0 ~ 359 degree can be programmed for the angle of load ON and load OFF
Half cycle and SCR/TRIAC loading		Positive or Negative half cycle, 90° Trailing edge or Leading edge current
Master/Slave(3 phase or Parallel application)		Yes, 1 master and upto 7 slave units
External programming input(OPTION)		F, S / 10Vdc, Resolution 0.1V
External SYNC input		TTL
Vmonitor / Isolated)		±700V / ±10V
Imonitor / Isolated)		±56.25Apk / ±10Vpk ±84Apk / ±10Vpk
Interface (OPTION)		GPIO ; RS-232 ; LAN ; USB
MAX. Power consumption		150VA
Operation Temperature *2		0 ~ 40 °C
Current of input impedance(mA) @ 50/60Hz : @		~V*0.3 ; ~V*2.2 ~V*0.4 ; ~V*2.95
Dimension(H x W x D)		177 x 440 x 552.6 mm 177 x 440 x 552.6 mm
Weight		27.96kg 33.96kg

- *1 ms (millisiemens) is the unit of conductance(G), one siemens equal to 1G
- *2 Operating temperature range is 0-40°C, all specification apply for 25°C±5°C. Except as noted
- *3 Turbo mode for up to 2X Current (also & Power rating) support Fuse, Short/OCP/OVP test function
- *4 The specification apply for current less than 20Arms
- * All specifications apply for 50/60Hz.
- * All specifications subject to change without notice.

