

SPECIFICATIONS

Model	34130A		34135A		34140A	
Power	30 KW	30 KW	35 KW	35 KW	40 KW	40 KW
Current	0 A to 100 A	0 A to 1000 A	0 A to 100 A	0 A to 1000 A	0 A to 100 A	0 A to 1000 A
Voltage	0 V to 60 V					
Min. Operating Voltage	0.1 V @ 100 A	0.7 V @ 1000 A *1	0.1 V @ 100 A	0.7 V @ 1000 A *1	0.1 V @ 100 A	0.7 V @ 1000 A *1
Protections						
Over Power Protection(OPP)	105 %					
Over Current Protection(OCP)	104 %					
Over Voltage Protection(OVP)	105 %					
Over Temp Protection(OTP)	YES					
Constant Current Mode						
Range *2	100 A	1000 A	100 A	1000 A	100 A	1000 A
Resolution	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA
Accuracy	± 0.05 % of (Setting + Range)					
Constant Resistance Mode						
Range	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω
Resolution	277 uS *5	0.001 mΩ	277 uS *5	0.001 mΩ	277 uS *5	0.001 mΩ
Accuracy	± 0.2 % of (Setting + Range)					
Constant Voltage Mode						
Range	60 V					
Resolution	1 mV					
Accuracy	± 0.05 % of (Setting + Range)					
Constant Power Mode						
Range	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	48 mW	480 mW	56 mW	560 mW	64 mW	640 mW
Accuracy	± 0.1 % of (Setting + Range)					
Constant Voltage + Current Limit Mode						
Range	60 V	1000 A	60 V	1000 A	60 V	1000 A
Resolution	1 mV	16 mA	1 mV	16 mA	1 mV	16 mA
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
Constant Voltage + Power Limit Mode						
Range	60 V	30000 W	60 V	35000 W	60 V	40000 W
Resolution	1 mV	480 mW	1 mV	560 mW	1 mV	640 mW
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
MPPT Mode						
Algorithm	P & O					
Load mode	CV					
P&O interval	1000 ms to 60000 ms ; resolution 1000 ms					
Dynamic Mode						
Timing						
Thigh & Tlow	0.150 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 mS					
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 mS					
Accuracy	1 uS/10 uS/100 uS/1 mS + 50 ppm					
Slew rate	24 mA/us to 1.5 A/us	240 mA/us to 15 A/us	24 mA/us to 1.5 A/us	240 mA/us to 15 A/us	24 mA/us to 1.5 A/us	240 mA/us to 15 A/us
Resolution	6 mA/uS	60 mA/us	6 mA/uS	60 mA/us	6 mA/uS	60 mA/us
Min. Rise Time	66.7 μs (typical)					
Accuracy	± (5 % of Setting) ±10 μs					
Current						
Range	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A
Resolution	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA
Measurement						
Voltage Read Back						
Range (5 Digital)	0 V to 6 V	6 V to 60 V	0 V to 6 V	6 V to 60 V	0 V to 6 V	6 V to 60 V
Resolution	0.1 mV	1 mV	0.1 mV	1 mV	0.1 mV	1 mV
Accuracy	± 0.025 % of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A
Resolution	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA
Accuracy	± 0.05 % of (Reading + Range)					
Power Read Back						
Range (5 Digital)	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy *3	± 0.06 % of (Reading + Range)					
General						
Short Circuit						
Current	1000 A					
Load ON Voltage	0.1 V to 25 V					
Load OFF Voltage	0 V to 25 V					
Power Consumption	2800 Wmax		3250 Wmax		3700 Wmax	
Dimension(HxWxD)	1197 mm x 647 mm x 766 mm		1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	340 Kg		390 Kg		430 Kg	
Operating Range						
Temperature *4	0 °C to 40 °C					
Humidity	20 % to 85 %rh					
Storage Range						
Temperature	-20 °C to +70 °C					
Humidity	≤ 90 %rh					
Withstanding Voltage test						
AC input and FG	AC 1500 V, 1 minute.					
AC input and Load terminal	AC 3000 V, 1 minute.					
Load terminal and FG	AC 1500 V, 1 minute.					
Safety & EMC	CE					

Note *1 : 0.7 V @ 1000 A is on Static condition, and the starting voltage must be greater than 5 V, if on Dynamic condition that is 5 V @ 1000 A

Note *2 : The range is automatically or forcing to range II only in CC mode

Note *3 : Power F.S. = Vrange F.S. x Irange F.S.

Note *4 : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

Note *5 : μS

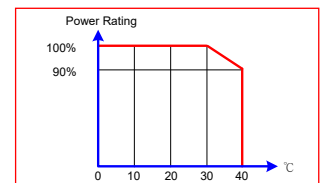
(microsiemens) is the unit

of conductance(G), one

Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

All specifications are subject to change without notice.



SPECIFICATIONS

Model	34230A		34235A		34240A	
Power	30 KW	30 KW	35 KW	35 KW	40 KW	40 KW
Current	0 A to 96 A	0 A to 960 A	0 A to 112 A	0 A to 1120 A	0 A to 128 A	0 A to 1280 A
Voltage	0 V to 600 V					
Min. Operating Voltage	20V @ 960A		20V @ 1120A		20V @ 1280A	
Protections						
Over Power Protection(OPP)	105 %					
Over Current Protection(OCP)	104 %					
Over Voltage Protection(OVP)	105 %					
Over Temp Protection(OTP)	YES					
Constant Current Mode						
Range *1	96 A	960 A	112 A	1120 A	128 A	1280 A
Resolution	1.536 mA	15.36 mA	1.792 mA	17.92 mA	2.048 mA	20.48 mA
Accuracy	± 0.05 % of (Setting + Range)					
Constant Resistance Mode						
Range	12500 Ω to 0.625 Ω	0.625 Ω to 0.0105 Ω	32142 Ω to 0.5357 Ω	0.5357 Ω to 0.009 Ω	28125 Ω to 0.46875 Ω	0.46875 Ω to 0.0078 Ω
Resolution *4	26.6 μS	0.0105 mΩ	31.1 μS	0.009 mΩ	35.5 μS	0.007875 mΩ
Accuracy	± 0.2 % of (Setting + Range)					
Constant Voltage Mode						
Range	600 V		600 V		600 V	
Resolution	10 mV		10 mV		10 mV	
Accuracy	± 0.05 % of (Setting + Range)					
Constant Power Mode						
Range	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	48 mW	480 mW	56 mW	560 mW	64 mW	640 mW
Accuracy	± 0.1 % of (Setting + Range)					
Constant Voltage + Current Limit Mode						
Range	600 V	960 A	600 V	1120 A	600 V	1280 A
Resolution	10 mV	15.36 mA	10 mV	17.92 mA	10 mV	20.48 mA
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
Constant Voltage + Power Limit Mode						
Range	600 V	30000W	600 V	35000W	600 V	40000W
Resolution	10 mV	480mW	10 mV	560mW	10 mV	640mW
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
MPPT Mode						
Algorithm	P&O					
Load mode	CV					
P&O interval	1000 ms to 60000 ms ; resolution 1000 ms					
Dynamic Mode						
Timing						
Thigh & Tlow	0.050 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 mS					
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 mS					
Accuracy	1 μS/10 μS/100 μS/1 mS + 50 ppm					
Slew rate	76.8 mA/μs to 4.8 A/μs	768 mA/μs to 48 A/μs	89.6 mA/μs to 5.6 A/μs	896 mA/μs to 56 A/μs	102.4 mA/μs to 6.4 A/μs	1024 mA/μs to 64 A/μs
Resolution	19.2 mA/μs	192 mA/μs	22.4 mA/μs	224 mA/μs	25.6 mA/μs	256 mA/μs
Min. Rise Time	20 μs(typical)					
Accuracy	± (5 % of Setting) ±10 μs					
Current						
Range	0 A to 96 A	96 A to 960 A	0 A to 112 A	112 A to 1120 A	0 A to 128 A	128 A to 1280 A
Resolution	1.536 mA	15.36 mA	1.792 mA	17.92 mA	2.048 mA	20.48 mA
Measurement						
Voltage Read Back						
Range (5 Digital)	0 V to 60 V	60 A to 600 V	0 V to 60 V	60 A to 600 V	0 V to 60 V	60 A to 600 V
Resolution	1 mV	10 mV	1 mV	10 mV	1 mV	10 mV
Accuracy	± 0.025 % of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0 A to 96 A	96 A to 960 A	0 A to 112 A	112 A to 1120 A	0 A to 128 A	128 A to 1280 A
Resolution	1.536 mA	15.36 mA	1.792 mA	17.92 mA	2.048 mA	20.48 mA
Accuracy	± 0.05 % of (Reading + Range)					
Power Read Back						
Range (5 Digital)	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy *2	± 0.06 % of (Reading + Range)					
General						
Short Circuit						
Current	960 A		1120 A		1280 A	
Load ON Voltage	0.4 V to 100 V					
Load OFF Voltage	0 V to 100 V					
Power Consumption	2800 W/max		3250 W/max		3700 W/max	
Dimension(HxWxD)	1197 mm x 647 mm x 766 mm		1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	340 Kg		390 Kg		430 Kg	
Operating Range						
Temperature *3	0 °C to 40 °C					
Humidity	20 % to 85 %rh					
Storage Range						
Temperature	-20 °C to +70 °C					
Humidity	<= 90 %rh					
Withstanding Voltage test						
AC input and FG	AC 1500 V, 1 minute.					
AC input and Load terminal	AC 3000 V, 1 minute.					
Load terminal and FG	AC 1500 V, 1 minute.					
Safety & EMC	CE					

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

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

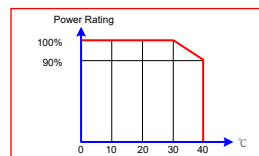
Note *3 : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

Note *4 : μS (microsiemens) is the unit of conductance(G), one siemens equal to 1/

Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

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SPECIFICATIONS						
Model	34330A		34335A		34340A	
Power	30 kW	30 kW	35 kW	35 kW	40 kW	40 kW
Current	0 A to 30 A	0 A to 300 A	0 A to 35 A	0 A to 350 A	0 A to 40 A	0 A to 400 A
Voltage			0 V to 1000 V			
Min. Operating Voltage	30 V @ 300 A		30 V @ 350 A		30 V @ 400 A	
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 *1	30 A	300 A	35 A	350 A	40 A	400 A
Resolution	0.48 mA	4.8 mA	0.56 mA	5.6 mA	0.64 mA	6.4 mA
Accuracy						
Constant Resistance Mode						
Range	4000 Ω to 3.333 Ω	3.333 Ω to 0.033396 Ω	3428.4 Ω to 2.857 Ω	2.857 Ω to 0.02862 Ω	3000 Ω to 2.5 Ω	2.5 Ω to 0.02505 Ω
Resolution *4	5 μs	0.05566 mΩ	5.83 μs	0.047711 mΩ	6.66 μs	0.04175 mΩ
Accuracy	± 0.2 % of (Setting + Range)					
Constant Voltage Mode						
Range	10 V to 1000 V					
Resolution	16 mV					
Accuracy	± 0.05 % of (Setting + Range)					
Constant Power Mode						
Range	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	48 mW	480 mW	56 mW	560 mW	64 mW	640 mW
Accuracy	± 0.1 % of (Setting + Range)					
Constant Voltage + Current Limit Mode						
Range	1000 V	300 A	1000 V	350 A	1000 V	400 A
Resolution	16 mV	4.8 mA	16 mV	5.6 mA	16 mV	6.4 mA
Accuracy	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)
Constant Voltage + Power Limit Mode						
Range	1000 V	30000 W	1000 V	35000 W	1000 V	40000 W
Resolution	16 mV	480 mW	16 mV	560 mW	16 mV	640 mW
Accuracy	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)
MPPT Mode						
Algorithm	P&O					
Load mode	CV					
P&O interval	1000 ms to 60000 ms ; resolution 1000 ms					
Dynamic Mode						
Timing						
Thigh & Tlow	0.050 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 ms					
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 ms					
Accuracy	1 μs / 10 μs / 100 μs / 1 ms + 50 ppm					
Slew rate	0.024 A/μs to 1.5 A/μs	0.24 A/μs to 15 A/μs	0.028 A/μs to 1.7 5A/μs	0.28 A/μs to 17.5 A/μs	0.032 A/μs to 2 A/μs	0.32 A/μs to 20 A/μs
Resolution	0.006 A/μs	0.06 A/μs	0.007 A/μs	0.07 A/μs	0.008 A/μs	0.08 A/μs
Min. Rise Time	20 μs (typical)					
Accuracy	± (5 % of Setting) ±10 μs					
Current						
Range	0 A to 30 A	30 A to 300 A	0 A to 35 A	35 A to 350 A	0 A to 40 A	40 A to 400 A
Resolution	0.48 mA	4.8 mA	0.56 mA	5.6 mA	0.64 mA	6.4 mA
Measurement						
Voltage Read Back						
Range (5 Digital)	0 V to 100 V	100 V to 1000 V	0 V to 100 V	100 V to 1000 V	0 V to 100 V	100 V to 1000 V
Resolution	1.6 mV	16 mV	1.6 mV	16 mV	1.6 mV	16 mV
Accuracy	± 0.025 % of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0 A to 30 A	30 A to 300 A	0 A to 35 A	35 A to 350 A	0 A to 40 A	40 A to 400 A
Resolution	0.48 mA	4.8 mA	0.56 mA	5.6 mA	0.64 mA	6.4 mA
Accuracy	± 0.05 % of (Reading + Range)					
Power Read Back						
Range (5 Digital)	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy *2	± 0.06 % of (Reading + Range)					
General						
Short Circuit						
Current	300 A		350 A		400 A	
Load ON Voltage	10.4 V to 200 V					
Load OFF Voltage	0 V to 200 V					
Power Consumption	2800 Wmax		3250 Wmax		3700 Wmax	
Dimension(HxWxD)	1197 mm x 647 mm x 766 mm		1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	340 Kg		390 Kg		430 Kg	
Operating Range						
Temperature *3	0 °C to 40 °C					
Humidity	20 % to 85 %rh					
Storage Range						
Temperature	-20 °C to +70 °C					
Humidity	<= 90 %rh					
Withstanding Voltage test						
AC input and FG	AC 1500 V, 1 minute.					
AC input and Load terminal	AC 3000 V, 1 minute.					
Load terminal and FG	AC 1500 V, 1 minute.					
Safety & EMC	CE					

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

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

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

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Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz

Cooling : Advanced Fan Cooled

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