



Living Industrial Partnerships

PRODUCT SPECIFICATION

Power Supplies

65

Series





65 Series Power Supplies



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Power Supplies



WERNER'S 65 series power supply module is an innovative module with half the size of the other manufacturers. This is a flagship general purpose unit type power supplies with harmonic attenuator, high efficiency, compact body, rich functions and variations. Werner's power supply modules are the highest quality in the market and offer the ultimate in performance and reliability.

Features Overview

- Sleek modules for space constraints
- Universal input voltage 90 V to 300V AC
- Mountable on 35 mm DIN rail or direct mounting
- Available range of out-puts 5V, 12V, 24V, 48V DC
- Wide out-put wattage range from 10 watts to 1500 watts

Highlights

- Power supply modules have rich functions and variations
- Built in over-load and short circuit protections available in modules
- These modules are with high efficiency, performance and reliability

Short circuit protection and over load protection make the power supply very safe to use. Available in Din rail or direct mounting and have universal voltage inputs 90 Volts to 300 Volts AC. Derating not required in the modules, hence cost, space and time effective.

65 series power supply modules are available with different output voltages such as 5V, 12V, 24V, 48V DC and rated power between 10 Watts to 1500 Watts.

Power Supplies

Features:

- Over current protection
- Overload protections
- Efficient in saving money, space and time
- Rated power between 10W to 1500W
- Power Supplies are available with different output voltages such as :

- 5V DC
- 12V DC
- 24V DC
- 48V DC



Approvals

Approbations and Declaration of conformity

UL	
CE	
RoHS	
CCC	
Demko	

Overvoltage category

III, as per EN IEC 60947-5-1

- Innovative power supply with half the size of the other manufactures.
- High efficiency, performance & Reliability
- Rich functions & variations
- Rated power of 10 to 1500 W
- Compact body

SMPS



65 Series Power Supplies



Model Number Selection

Style	Output Wattage	Output Voltage	Output Current	Max. Output Wattage	Model No.
	10 W	5 V	2 A	10 W	65.10.00.05
		12 V	0.9 A	10.8 W	65.10.00.12
		24 V	0.5 A	12 W	65.10.00.24
	15 W	3.3 V	3 A	9.9 W	65.15.00.03
		5 V	3 A	15 W	65.15.00.05
		9 V	1.7 A	15.3 W	65.15.00.09
		12 V	1.3 A	15.6 W	65.15.00.12
		15 V	1 A	15 W	65.15.00.15
		24 V	0.7 A	16.8 W	65.15.00.24
		48 V	0.35 A	16.8 W	65.15.00.48
	30 W	3.3 V	6 A	19.8 W	65.30.00.03
		5 V	6 A	30 W	65.30.00.05
		9 V	3.4 A	30.6 W	65.30.00.09
		12 V	2.5 A	30 W	65.30.00.12
		15 V	2 A	30 W	65.30.00.15
		24 V	1.3 A	31.2 W	65.30.00.24
		48 V	0.65 A	31.2 W	65.30.00.48
	50 W	3.3 V	10 A	33 W	65.50.00.03
		5 V	10 A	50 W	65.50.00.05
		9 V	5.6 A	50.4 W	65.50.00.09
		12 V	4.3 A	51.6 W	65.50.00.12
		15 V	3.5 A	52.5 W	65.50.00.15
		24 V	2.2 A	52.8 W	65.50.00.24
		36 V	1.4 A	50.4 W	65.50.00.36
		48 V	1.1 A	52.8 W	65.50.00.48
	75 W	3.3 V	15 A	49.5 W	65.75.00.03
		5 V	15 A	75 W	65.75.00.05
		9 V	8.4 A	75.6 W	65.75.00.09
		12 V	6.3 A	75.6 W	65.75.00.12
		15 V	5 A	75 W	65.75.00.15
		24 V	3.2 A	76.8 W	65.75.00.24
		36 V	2.1 A	75.6 W	65.75.00.36
		48 V	1.6 A	76.8 W	65.75.00.48
	100 W	3.3 V	20 A	66	65.75.00.03
		5 V	20 A	100	65.100.00.05
		9 V	10.5 A	94.5	65.100.00.09
		12 V	8.5 A	102	65.100.00.12
		15 V	7 A	105	65.100.00.15
		24 V	4.5 A	108	65.100.00.24
		36 V	2.8 A	100.8	65.100.00.36
		48 V	2.1 A	100.8	65.100.00.48



65 Series Power Supplies



Model Number Selection					
Style	Output Wattage	Output Voltage	Output Current	Max. Output Wattage	Model No.
	150 W	3.3 V	30 A	99 W	65.150.00.03
		5 V	30 A	150 W	65.150.00.05
		9 V	16.7 A	150.3 W	65.150.00.09
		12 V	13 A	156 W	65.150.00.12
		15 V	10 A	150 W	65.150.00.15
		24 V	6.5 A	156 W	65.150.00.24
		36 V	4.3 A	154.8 W	65.154.00.36
		48 V	3.3 A	158.4 W	65.150.00.48
	250 W	5V	45A	225 W	65.250.00.05
		12V	20A	240 W	65.250.00.12
		13.5V	18.6A	251.1 W	65.250.00.13.5
		15V	16.7A	250.5 W	65.250.00.15
		24V	10A	240 W	65.250.00.24
		27V	9A	243 W	65.250.00.27
	300 W	3.3 V	60 A	198 W	65.300.00.03
		5 V	60 A	300 W	65.300.00.05
		7.5 V	40 A	300 W	65.300.00.07
		12 V	27 A	324 W	65.300.00.12
		15 V	22 A	330 W	65.300.00.15
		24 V	14 A	336 W	65.300.00.24
		36 V	9 A	324 W	65.300.00.36
		48 V	7 A	336 W	65.300.00.48
	600 W	3.3 V	120 A	396 W	65.600.00.03
		5 V	120 A	600 W	65.600.00.05
		7.5 V	80 A	600 W	65.600.00.07
		12 V	53 A	636 W	65.600.00.12
		15 V	43 A	645 W	65.600.00.15
		24 V	27 A	648 W	65.600.00.24
		36 V	18 A	648 W	65.600.00.36
		48 V	13 A	624 W	65.600.00.48
	1000 W	3.3 V	200 A	600 W	65.1000.00.03
		5 V	200 A	1000 W	65.1000.00.05
		9 V	134 A	1005 W	65.1000.00.07
		12 V	88 A	1056 W	65.1000.00.12
		15 V	70 A	1050 W	65.1000.00.15
		24 V	44 A	1056 W	65.1000.00.24
		36 V	29 A	1044 W	65.1000.00.36
		48 V	22 A	1056 W	65.1000.00.48
	1500 W	3.3 V	300 A	990 W	65.1500.00.03
		5 V	300 A	1500 W	65.1500.00.05
		9 V	200 A	1500 W	65.1500.00.07
		12 V	125 A	1500 W	65.1500.00.12
		15 V	100 A	1500 W	65.1500.00.15
		24 V	65 A	1680 W	65.1500.00.24
		36 V	42 A	1692 W	65.1500.00.36
		48 V	32 A	1680 W	65.1500.00.48
	1500 W*	5 V	300 A	1500 W	65.1500.03.05
		12 V	125 A	1500 W	65.1500.03.12
		24 V	70(105) A	1680 W	65.1500.03.24
		48 V	35 A	1680 W	65.1500.03.24

* Refers to Triple input phase type.

The above values are rated with 100V AC Input Voltage.



Model Number Structure - Power Supplies



65.75.00.24.01

Series	
65 Series Power Supplies	

Output Wattage	
10	10W
15	15W
30	30W
50	50W
75	75W
100	100W
150	150W
250	250W
300	300W
600	600W
1000	1000W
1500	1500W

Optional	
01	With Coating
02	Vertical Terminal Block
03	Connector type
04	with Din Rail
05	Remote On/Off Switch

Output Voltage	
03	3.3 V
05	5 V
07	7.5 V - above 300 W
09	9 V - below 150 W
12	12 V
13.5	13.5 V - only 250 W
15	15 V
24	24 V
27	27V - only 250 W
48	48V - only 250 W
36	36 V

Input Phase	
00	Universal Input
03	Tripal input phase*

* Suitable for 1500W only.

10 W

Model No.	Voltage	DC Output (100 V)
65.10.00.05	5 V	2 A
65.10.00.12	12 V	0.9 A
65.10.00.24	24 V	0.5 A



Specifications

Model no.		65.10.00.05	65.10.00.12	65.10.00.24	
Output	Voltage	5V	12V	24V	
	Current	2A	0.9A	0.5A	
	Max Output Wattage	10	10.8	12	
	Ripple max.	0 to +50°C	80 mV	120 mV	120 mV
		-10 to -0°C	140 mV	160 mV	160 mV
	Temperature Regulation	0 to +50°C	50 mV	120 mV	240 mV
		-10 to -0°C	60 mV	150 mV	290 mV
	Ripple Noise max.	0 to +50°C	120 mV	150mV	150 mV
		-10 to -0°C	160 mV	180 mV	180 mV
	Start-up Time	200typ(ACIN 100V, Io=100%)			
	Hold-up Time	20typ(ACIN 100V, Io=100%)			
	Line Regulation (max.)	20 mV	48 mV	96 mV	
	Load Regulation (max.)	40 mV	100 mV	150 mV	
Drift (mV)	20 mV	48 mV	96 mV		
Output Voltage Setting	5.0V - 5.15V	12.0V - 12.48V	24.0V - 24.96V		
Output Voltage Adjustment Range	4.50 - 5.50	10.0 - 13.2	19.2 - 27.0		
Input	Voltage	AC85 - 264 1 Ø or DC110 - 370 (AC50 or DC70*)			
	Frequency(Hz)	50/60 (47 - 440) or DC			
	Inrush Current	ACIN 100V	15typ (Io=100%)		
		ACIN 200V	30typ (Io=100%)		
	Current [A]	ACIN 100V	0.30typ (Io= 100%)		
		ACIN 200V	0.20typ (Io= 100%)		
Efficiency	ACIN 100V	74typ	76typ	77typ	
	ACIN 200V	74typ	76typ	77typ	
Insolation	Leakage Current	0.15/0.30max (ACIN 100v/240V 60Hz,			
	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)			
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)			
Safety	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)			
	CE Marking	Low Voltage Directive, EMC Directive			
Protection Circuit	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B			
	Remote On/Off	None			
	Overcurrent Protection	Works Over 150% of rated current & recovers automatically			
	Overvoltage Protection	5.75V - 7.00V	15.0V - 18.0V	30.0V - 37.0V	
Environment	Operating Indication	LED (Green)			
	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max			
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max			
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis			
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis			

Weight

Weight (approx.)	150g
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15 W

Model No.	Voltage	DC Output (100 V)
65.15.00.03	3.3 V	3 A
65.15.00.05	5 V	3 A
65.15.00.09	9 V	1.7 A
65.15.00.12	12 V	1.3 A
65.15.00.15	15 V	1 A
65.15.00.24	24 V	0.7 A
65.15.00.48	48 V	0.35 A



Specifications

Model no.		65.15.00.03	65.15.00.05	65.15.00.09	65.15.00.12	65.15.00.15	65.15.00.24	65.15.00.48		
Output	Voltage	3.3 V	5V	9V	12V	15V	24V	48V		
	Current	3A	3A	1.7A	1.3A	1A	0.7A	0.35A		
	Max Output Wattage	9.9	15	15.3	15.6	15	16.8	16.8		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	160 mV	160 mV	160 mV	200 mV	
	Temperature Regulation	0 to +50°C	50 mV	50 mV	90 mV	120 mV	150 mV	240 mV	480 mV	
		-10 to -0°C	60 mV	60 mV	120 mV	150 mV	180 mV	290 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	250 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	300 mV	
	Start-up Time	200typ(ACIN 100V, Io=100%)								
	Hold-up Time	20typ(ACIN 100V, Io=100%)								
	Line Regulation (max.)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	192 mV		
Load Regulation (max.)	40 mV	40 mV	100 mV	100 mV	120 mV	150 mV	240 mV			
Drift (mV)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	192 mV			
Output Voltage Setting	3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	48.00 - 49.92			
Output Voltage Adjustment Range	2.85 - 3.60	4.50 - 5.50	7.50 - 10.0	10.00 - 13.2	13.2 - 18.00	19.2 - 27.00	39.00 - 53.00			
Input	Voltage	AC85 - 264 1 ∅ or DC110 - 370 (AC50 or DC70)								
	Frequency(Hz)	50/60 (47 - 440) or DC								
	Inrush Current	ACIN 100V	15typ (Io=100%)							
		ACIN 200V	30typ (Io=100%)							
	Current [A]	ACIN 100V	0.30typ (Io=100%)			0.04typ (Io=100%)				
		ACIN 200V	0.20typ (Io=100%)			0.02typ (Io=100%)				
Efficiency	ACIN 100V	68typ	74typ	75typ	75typ	77typ	75typ	75typ		
	ACIN 200V	68typ	75typ	77typ	78typ	80typ	78typ	78typ		
Leakage Current	0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)									
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)								
Safety	CE Marking	Low Voltage Directive, EMC Directive								
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
Protection Circuit	Remote On/Off	None								
	Overcurrent Protection	Works Over 150% of rated current & recovers automatically								
	Overvoltage Protection	4.00 - 5.25	5.75 - 7.00	11.5 - 14.00	15.0 - 18.0	20.00 - 25.0	30.0 - 37.0	58.0 - 65.0		
	Operating Indication	LED (Green)								
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max								
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max								
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis								

Weight

Weight (approx.)	200g
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30 W

Model No.	Voltage	DC Output (100 V)
65.30.00.03	3.3 V	6 A
65.30.00.05	5 V	6 A
65.30.00.09	9 V	3.4 A
65.30.00.12	12 V	2.5 A
65.30.00.15	15 V	2 A
65.30.00.24	24 V	1.3 A
65.30.00.48	48 V	0.65 A



Specifications

Model no.		65.30.00.03	65.30.00.05	65.30.00.09	65.30.00.12	65.30.00.15	65.30.00.24	65.30.00.48		
Output	Voltage	3.3 V	5V	9V	12V	15V	24V	48V		
	Current	6 A	6 A	3.4 A	2.5 A	2 A	1.3 A	0.65 A		
	Max Output Wattage	19.8	30	30.6	30	30	31.2	31.2		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	160 mV	160 mV	160 mV	200 mV	
	Temperature Regulation	0 to +50°C	50 mV	50 mV	90 mV	120 mV	150 mV	240 mV	480 mV	
		-10 to -0°C	60 mV	60 mV	120 mV	150 mV	180 mV	290 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	250 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	300 mV	
	Start-up Time	200typ(ACIN 100V, Io=100%)								
	Hold-up Time	20typ(ACIN 100V, Io=100%)								
	Line Regulation (max.)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	192 mV		
Load Regulation (max.)	40 mV	40 mV	100 mV	100 mV	120 mV	150 mV	240 mV			
Drift (mV)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	192 mV			
Output Voltage Setting	3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	48.00 - 49.92			
Output Voltage Adjustment Range	2.85 - 3.60	4.50 - 5.50	7.50 - 10.0	10.00 - 13.2	13.2 - 18.00	19.2 - 27.00	39.00 - 53.00			
Input	Voltage	AC85 - 264 1 Ø or DC110 - 370 (AC50 or DC70)								
	Frequency(Hz)	50/60 (47 - 440) or DC								
	Inrush Current	ACIN 100V	15typ (Io=100%)							
		ACIN 200V	30typ (Io=100%)							
	Current [A]	ACIN 100V	0.30typ (Io=100%)		0.04typ (Io=100%)					
		ACIN 200V	0.20typ (Io=100%)		0.02typ (Io=100%)					
Efficiency	ACIN 100V	68typ	74typ	75typ	76typ	78typ	78typ	79typ		
	ACIN 200V	69typ	77typ	77typ	78typ	81typ	81typ	81typ		
Leakage Current	0.30/0.65max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)									
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)								
Safety	CE Marking	Low Voltage Directive, EMC Directive								
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
Protection Circuit	Remote On/Off	None								
	Overcurrent Protection	Works Over 150% of rated current & recovers automatically								
	Overvoltage Protection	4.00 - 5.25	5.75 - 7.00	11.5 - 14.00	15.0 - 18.0	20.00 - 25.0	30.0 - 37.0	58.0 - 65.0		
	Operating Indication	LED (Green)								
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max								
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max								
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis								

Weight

Weight (approx.)	270g
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50 W

Model No.	Voltage	DC Output (100 V)
65.50.00.03	3.3 V	10 A
65.50.00.05	5 V	10 A
65.50.00.09	9 V	5.6 A
65.50.00.12	12 V	4.3 A
65.50.00.15	15 V	3.5 A
65.50.00.24	24 V	2.2 A
65.50.00.36	36 V	1.4 A
65.50.00.48	48 V	1.1 A



Specifications

Model no.		65.50.00.03	65.50.00.05	65.50.00.09	65.50.00.12	65.50.00.15	65.50.00.24	65.50.00.36	65.50.00.48	
Output	Voltage	3.3 V								
	Current	10 A								
	Max Output Wattage	33								
	Ripple max.	0 to +50°C	80 mV							
		-10 to -0°C	140 mV							
	Temperature Regulation	0 to +50°C	50 mV							
		-10 to -0°C	60 mV							
	Ripple Noise max.	0 to +50°C	120 mV							
		-10 to -0°C	160 mV							
	Start-up Time	350typ(ACIN 100V, Io=100%)								
	Hold-up Time	20typ(ACIN 100V, Io=100%)								
	Line Regulation (max.)	20 mV								
Load Regulation (max.)	40 mV									
Drift (mV)	20 mV									
Output Voltage Setting	3.30 - 3.40									
Output Voltage Adjustment Range	2.85 - 3.60									
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)								
	Frequency(Hz)	50/60 (47 - 63) or DC								
	Inrush Current	ACIN 100V	15typ (Io=100%)							
		ACIN 200V	30typ (Io=100%)							
	Current [A]	ACIN 100V	0.5typ							
		ACIN 200V	0.7typ							
Efficiency	ACIN 100V	75typ								
	ACIN 200V	80typ								
Leakage Current	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1, DENAN)									
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)								
Safety	CE Marking	Low Voltage Directive, EMC Directive								
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
Protection Circuit	Remote On/Off	None								
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically								
	Overvoltage Protection	4.00 - 5.25								
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max								
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max								
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis								

Weight

Weight (approx.)	280g
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75 W

Model No.	Voltage	DC Output (100 V)
65.75.00.03	3.3 V	15 A
65.75.00.05	5 V	15 A
65.75.00.09	9 V	8.4 A
65.75.00.12	12 V	6.3 A
65.75.00.15	15 V	5 A
65.75.00.24	24 V	3.2 A
65.75.00.36	36 V	2.1 A
65.75.00.48	48 V	1.6 A



Specifications

Model no.		65.75.00.03	65.75.00.05	65.75.00.09	65.75.00.12	65.75.00.15	65.75.00.24	65.75.00.36	65.75.00.48	
Output	Voltage	3.3 V	5V	9V	12V	15V	24V	36V	48V	
	Current	15 A	15 A	8.4 A	6.3 A	5 A	3.2 A	2.1 A	1.6 A	
	Max Output Wattage	49.5	75	75.6	75.6	75	76.8	75.6	76.8	
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV
		-10 to -0°C	140 mV	140 mV	160 mV	160 mV	160 mV	160 mV	200 mV	200 mV
	Temperature Regulation	0 to +50°C	50 mV	50 mV	90 mV	120 mV	150 mV	240 mV	360 mV	480 mV
		-10 to -0°C	60 mV	60 mV	120 mV	150 mV	180 mV	290 mV	450 mV	600 mV
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	250 mV	250 mV
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	300 mV	300 mV
	Start-up Time	350typ (ACIN 100V, Io=100%)								
	Hold-up Time	20typ (ACIN 100V, Io=100%)								
	Line Regulation (max.)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV	
Load Regulation (max.)	40 mV	40 mV	100 mV	100 mV	120 mV	150 mV	240 mV	240 mV		
Drift (mV)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
Output Voltage Setting	3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	35.00 - 37.44	48.00 - 49.92		
Output Voltage Adjustment Range	2.85 - 3.63	4.00 - 5.50	7.50 - 10.0	10.00 - 13.2	13.2 - 18.00	19.2 - 27.00	28.8 - 39.6	39.00 - 53.00		
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)								
	Frequency(Hz)	50/60 (47 - 63) or DC								
	Inrush Current	ACIN 100V	15typ (Io=100%) at cold start							
		ACIN 200V	30typ (Io=100%) at cold start							
	Current [A]	ACIN 100V	0.7typ	1.0typ						
		ACIN 200V	0.4typ	0.5typ						
Efficiency	ACIN 100V	77typ	81typ	80typ	81typ	82typ	83typ	84typ	84typ	
	ACIN 200V	78typ	83typ	82typ	83typ	84typ	85typ	86typ	86typ	
Leakage Current	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1, DENAN)									
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)								
Safety	CE Marking	Low Voltage Directive, EMC Directive								
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
Protection Circuit	Remote On/Off	None								
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically								
	Overvoltage Protection	4.00 - 5.25	5.75 - 7.00	11.5 - 14.00	15.0 - 18.0	20.00 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0	
	Operating Indication	LED (Green)								
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max								
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max								
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis								

Weight

Weight (approx.)	350g
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100 W

Model No.	Voltage	DC Output (100 V)
65.100.00.03	3.3 V	20 A
65.100.00.05	5 V	20 A
65.100.00.09	9 V	10.5 A
65.100.00.12	12 V	8.5 A
65.100.00.15	15 V	7 A
65.100.00.24	24 V	4.5 A
65.100.00.36	36 V	2.8 A
65.100.00.48	48 V	2.1 A



Specifications

Model no.		65.100.00.03	65.100.00.05	65.100.00.09	65.100.00.12	65.100.00.15	65.100.00.24	65.100.00.36	65.100.00.48		
Output	Voltage	3.3 V	5V	9V	12V	15V	24V	36V	48V		
	Current	20 A	20 A	10.5 A	8.5 A	7 A	4.5 A	2.8 A	2.1 A		
	Max Output Wattage	66	100	94.5	102	105	108	100.8	100.8		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	160 mV	160 mV	160 mV	200 mV	200 mV	
	Temperature Regulation	0 to +50°C	50 mV	50 mV	90 mV	120 mV	150 mV	240 mV	360 mV	480 mV	
		-10 to -0°C	60 mV	60 mV	120 mV	150 mV	180 mV	290 mV	450 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	250 mV	250 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	300 mV	300 mV	
	Start-up Time	350typ (ACIN 100V, Io=100%)									
	Hold-up Time	20typ (ACIN 100V, Io=100%)									
	Line Regulation (max.)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
Load Regulation (max.)	40 mV	40 mV	100 mV	100 mV	120 mV	150 mV	240 mV	240 mV			
Drift (mV)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV			
Output Voltage Setting	3.20 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	35.00 - 37.44	48.00 - 49.92			
Output Voltage Adjustment Range	2.85 - 3.63	4.00 - 5.50	7.50 - 10.0	10.00 - 13.2	13.2 - 18.00	19.2 - 27.00	28.8 - 39.6	39.00 - 53.00			
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)									
	Frequency(Hz)	50/60 (47 - 63) or DC									
	Inrush Current	ACIN 100V	20typ (Io=100%) at cold start								
		ACIN 200V	40typ (Io=100%) at cold start								
	Current [A]	ACIN 100V	0.9typ	1.3typ							
		ACIN 200V	0.5typ	0.7typ							
Efficiency	ACIN 100V	77typ	82typ	80typ	81typ	83typ	84typ	84typ	84typ		
	ACIN 200V	79typ	84typ	82typ	83typ	86typ	86typ	86typ	86typ		
Leakage Current	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1, DENAN)										
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)									
Safety	CE Marking	Low Voltage Directive, EMC Directive									
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
Protection Circuit	Remote On/Off	None									
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically									
	Overvoltage Protection	4.00 - 5.25	5.75 - 7.00	11.5 - 14.00	15.0 - 18.0	20.00 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0		
	Operating Indication	LED (Green)									
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max									
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max									
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									

Weight

Weight (approx.)	440g
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150 W

Model No.	Voltage	DC Output (100 V)
65.150.00.03	3.3 V	30 A
65.150.00.05	5 V	30 A
65.150.00.09	9 V	16.7 A
65.150.00.12	12 V	13 A
65.150.00.15	15 V	10 A
65.150.00.24	24 V	6.5 A
65.154.00.36	36 V	4.3 A
65.150.00.48	48 V	3.3 A



Specifications

Model no.		65.150.00.03	65.150.00.05	65.150.00.09	65.150.00.12	65.150.00.15	65.150.00.24	65.154.00.36	65.150.00.48		
Output	Voltage	3.3 V	5V	9V	12V	15V	24V	36V	48V		
	Current	30 A	30 A	16.7 A	13 A	10 A	6.5 A	4.3 A	3.3 A		
	Max Output Wattage	99	150	150.3	156	150	156	154.8	158.4		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	160 mV	160 mV	160 mV	200 mV	200 mV	
	Temperature Regulation	0 to +50°C	50 mV	50 mV	90 mV	120 mV	150 mV	240 mV	360 mV	480 mV	
		-10 to -0°C	60 mV	60 mV	120 mV	150 mV	180 mV	290 mV	450 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	250 mV	250 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	300 mV	300 mV	
	Start-up Time	350typ (ACIN 100V, Io=100%)									
	Hold-up Time	20typ (ACIN 100V, Io=100%)									
	Line Regulation (max.)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
Load Regulation (max.)	40 mV	40 mV	100 mV	100 mV	120 mV	150 mV	240 mV	240 mV			
Drift (mV)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV			
Output Voltage Setting	3.30 - 3.40	5.00 - 5.15	9.00 - 9.36	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	35.00 - 37.44	48.00 - 49.92			
Output Voltage Adjustment Range	2.85 - 3.63	4.00 - 5.50	7.50 - 10.0	10.00 - 13.2	13.2 - 18.00	19.2 - 27.00	28.8 - 39.6	39.00 - 53.00			
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)									
	Frequency(Hz)	50/60 (47 - 63)									
	Inrush Current	ACIN 100V	20typ (Io=100%) at cold start								
		ACIN 200V	40typ (Io=100%) at cold start								
	Current [A]	ACIN 100V	1.3typ	2.0typ							
		ACIN 200V	0.7typ	1.0typ							
Efficiency	ACIN 100V	80typ	83typ	82typ	83typ	84typ	85typ	85typ	85typ		
	ACIN 200V	82typ	86typ	85typ	86typ	87typ	88typ	88typ	88typ		
Leakage Current	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)										
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)									
Safety	CE Marking	Low Voltage Directive, EMC Directive									
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
Protection Circuit	Remote On/Off	None									
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically									
	Overvoltage Protection	4.00 - 5.25	5.75 - 7.00	11.5 - 14.00	15.0 - 18.0	20.00 - 25.0	30.0 - 37.0	43.0 - 50.0	58.0 - 65.0		
Operating Indication	LED (Green)										
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max									
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max									
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									

Weight

Weight (approx.)	560g
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250 W

Model No.	Voltage	Rated Output Current
65.250.00.05	5V	45A
65.250.00.12	12V	20A
65.250.00.13.5	13.5V	18.6A
65.250.00.15	15V	16.7A
65.250.00.24	24V	10A
65.250.00.27	27V	9A
65.250.00.48	48V	5A



Specifications

Model No.	65.250.00.05	65.250.00.12	65.250.00.13.5	65.250.00.15	65.250.00.24	65.250.00.27	65.250.00.48
DC Output Voltage	5V	12V	13.5V	15V	24V	27V	48V
Input Voltage Error	± 2%	± 2%	± 1%	± 1%	± 1%	± 1%	± 1%
Rated Output Current	45A	20A	18.6A	16.7A	10A	9A	5A
Output Current Range	0-45A	0-20A	0-18.6A	0-16.7A	0-10A	0-9A	0-5A
Tripple and Noise	200mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	240mVp-p
Inlet Stability	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
Tolerance Voltage	± 1%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
DC Output Power	247.5W	240W	248W	250.5W	240W	243W	240W
Efficiency	75%	79%	79%	80%	81%	82%	84%
Adjustable Range for DC Voltage	6-9V	10-13.2V	12-15V	13.5-18V	20-26.4V	26-32V	41-56V
AC Input Voltage Range	88~132VAC/176~264VAC selected by switch 47~63Hz; 240~370VDC						
Input Current	5A/115V 2.5A/230V						
AC Inrush Current	Cold-Start Current: 30A/115V, 60A/230V						
Leakage Current	<3.5mA/240VAC						
Overload Protection	105%~150% Type: Cut Output, Reset: Auto Recovery						
Over Voltage Protection						
High Temperature Protection						
Temperature Coefficient	± 0.03% /°C (0~50°C)						
Start, Rise, Hold time	200ms, 100ms, 20ms						
Vibration	10~500Hz, 2G 10min./1cycle, a total of 60 minutes, Each axes						
Withstand Voltage	Between Input and Output: 1.5KVAC, Input and Shell: 1.5KVAC, Output and Shell: 0.5KVAC						
Isolation Resistance	Input and Output Internal: Input and Enclosure, Output and Enclosure: 500VDC/100M Ohms						
Working Temperature and Humidity	-10°C~+60°C (Refer to Output Derating Curve), 20%~90%RH						
Storage Temperature and Humidity	-20°C~+85°C, 10%~95%RH						
Overall Dimension	215X115X50 mm						
Weight	1.10 kgs						
Safety Standards	CE						
EMC Standards	Meet FCC Part 15J Conduction class B						

Weight

Weight (approx.)	1.10 kgs
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300 W

Model No.	Voltage	DC Output (100 V)	DC Output (200 V)
65.300.00.03	3.3 V	60 A	60 A
65.300.00.05	5 V	60 A	60 A
65.300.00.07	7.5 V	40 A	40 A
65.300.00.12	12 V	27 A	27 A
65.300.00.15	15 V	22 A	22 A
65.300.00.24	24 V	14 A	14(16.5) A
65.300.00.36	36 V	9 A	9 A
65.300.00.48	48 V	7 A	7 A



Specifications

Model no.		65.300.00.03	65.300.00.05	65.300.00.07	65.300.00.12	65.300.00.15	65.300.00.24	65.300.00.36	65.300.00.48		
Output	Voltage	3.3 V	5V	7.5V	12V	15V	24V	36V	48V		
	Current	100 V	60 A	60 A	40 A	27 A	22 A	14 A	9 A	7 A	
		200 V	60 A	60 A	40 A	27 A	22 A	14(16.5) A	9 A	7 A	
	Max Output Wattage	198	300	300	324	330	336	324	336		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	160 mV	160 mV	160 mV	160 mV	400 mV	
	Temperature Regulation	0 to +50°C	40 mV	50 mV	75 mV	120 mV	150 mV	240 mV	360 mV	480 mV	
		-10 to -0°C	60 mV	75 mV	120 mV	180 mV	180 mV	290 mV	440 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	200 mV	200 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	240 mV	500 mV	
	Start-up Time	300typ (ACIN 100V/200V, Io=100%)									
	Hold-up Time	20typ (ACIN 100V/200V, Io=100%)									
	Line Regulation (max.)	20 mV		20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV	
	Load Regulation (max.)	40 mV		40 mV	60 mV	100 mV	120 mV	150 mV	250 mV	300 mV	
Drift (mV)	12 mV		20 mV	30 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
Output Voltage Setting	3.30 - 3.40		5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92		
Output Voltage Adjustment Range	2.64 - 3.96		3.96 - 6.00	5.25 - 8.25	8.25 - 13.2	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00		
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)									
	Frequency(Hz)	50/60 (47 - 63)									
	Inrush Current	ACIN 100V	20/40typ (Io=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
		ACIN 200V	40/40typ (Io=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
	Current [A]	ACIN 100V	3typ	4.1typ							
		ACIN 200V	1.6typ	2typ							
	Power Factor	ACIN 100V	0.98typ (Io=100%)								
Efficiency	ACIN 100V	68typ	74typ	76typ	78typ	78typ	79typ	81typ	79typ		
	ACIN 200V	71typ	77typ	79typ	81typ	81typ	82typ	84typ	82typ		
Leakage Current	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1, DENAN)										
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MQmin (At Room Temperature)									
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MQmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MQmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MQmin (At Room Temperature)									
Safety	CE Marking	Low Voltage Directive, EMC Directive									
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
Protection Circuit	Remote On/Off	None									
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically									
	Overvoltage Protection	4.3 - 6.3	6.5 - 8.00	9.0 - 11.6	14.4 - 18.6	18.00 - 23.3	28.8 - 37.2	43.2 - 54.0	57.6 - 80.0		
	Operating Indication	LED (Green)									
Environment	Operating Temp., Humid & Altitude	-20 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max									
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max									
	Impact	196.1m/s2 (20G), 11ms, once each X, Y and Z axis									
	Vibration	10 - 55Hz, 19.6m/s2 (2G), 3minutes period, 60minutes each along X, Y and Z axis									

Weight

Weight (approx.)	560g
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600 W

Model No.	Voltage	DC Output (100 V)	DC Output (200 V)
65.600.00.03	3.3 V	120 A	120 A
65.600.00.05	5 V	120 A	120 A
65.600.00.07	7.5 V	80 A	80 A
65.600.00.12	12 V	53 A	53 A
65.600.00.15	15 V	43 A	43 A
65.600.00.24	24 V	27 A	27(31)A
65.600.00.36	36 V	18 A	18 A
65.600.00.48	48 V	13 A	13 A



Specifications

Model no.		65.600.00.03	65.600.00.05	65.600.00.07	65.600.00.12	65.600.00.15	65.600.00.24	65.600.00.36	65.600.00.48		
Output	Voltage	3.3 V	5V	7.5V	12V	15V	24V	36V	48V		
	Current	100 V	120 A	120 A	80 A	53 A	43 A	27 A	18 A	13 A	
		200 V	120 A	120 A	80 A	53 A	43 A	27(31)A	18 A	13 A	
	Max Output Wattage	396	600	600	636	645	648	648	624		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	400 mV					
	Temperature Regulation	0 to +50°C	40 mV	50 mV	75 mV	120 mV	150 mV	240 mV	360 mV	480 mV	
		-10 to -0°C	60 mV	75 mV	120 mV	180 mV	180 mV	290 mV	440 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	200 mV	200 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	240 mV	500 mV	
	Start-up Time	400typ (ACIN 100V/200V, Io=100%)									
	Hold-up Time	20typ (ACIN 100V/200V, Io=100%)									
	Line Regulation (max.)	20 mV	20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
	Load Regulation (max.)	40 mV	40 mV	60 mV	100 mV	120 mV	150 mV	150 mV	300 mV		
Drift (mV)	12 mV	20 mV	30 mV	48 mV	60 mV	96 mV	144 mV	192 mV			
Output Voltage Setting	3.30 - 3.40	5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92			
Output Voltage Adjustment Range	2.64 - 3.96	3.96 - 6.00	5.25 - 8.25	8.25 - 13.2	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00			
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)									
	Frequency(Hz)	50/60 (47 - 63)									
	Inrush Current	ACIN 100V	20/40typ (Io=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
		ACIN 200V	40/40typ (Io=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
	Current [A]	ACIN 100V	5.8typ	8.2typ							
		ACIN 200V	3typ	4.1typ							
	Power Factor	ACIN 100V	0.98typ (Io=100%)								
Efficiency	ACIN 100V	70typ	75typ	76typ	79typ	79typ	81typ	82typ	81typ		
	ACIN 200V	72typ	77typ	79typ	82typ	82typ	84typ	84typ	83typ		
Leakage Current	0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)										
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)									
Safety	CE Marking	Low Voltage Directive, EMC Directive									
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
Protection Circuit	Remote On/Off	None									
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically									
	Overvoltage Protection	Vo+0.66 - 1.32	Vo+1.0 - 2.0	Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12		
Environment	Operating Temp., Humid & Altitude	-20 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max									
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max									
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									

Weight

Weight (approx.)	1,600g
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1000 W

Model No.	Voltage	DC Output (100 V)	DC Output (200 V)
65.1000.00.03	3.3 V	200 A	200 A
65.1000.00.05	5 V	200 A	200 A
65.1000.00.07	7.5 V	134 A	134 A
65.1000.00.12	12 V	88 A	88 A
65.1000.00.15	15 V	70 A	70 A
65.1000.00.24	24 V	44 A	44(51) A
65.1000.00.36	36 V	29 A	29 A
65.1000.00.48	48 V	22 A	22 A



Specifications

Model no.		65.1000.00.03	65.1000.00.05	65.1000.00.07	65.1000.00.12	65.1000.00.15	65.1000.00.24	65.1000.00.36	65.1000.00.48		
Output	Voltage	3.3 V	5V	7.5V	12V	15V	24V	36V	48V		
	Current	100 V	200 A	200 A	134 A	88 A	70 A	44 A	29 A	22 A	
		200 V	200 A	200 A	134 A	88 A	70 A	44 A	29 A	22 A	
	Max Output Wattage	600	1000	1005	1056	1050	1056	1044	1056		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	400 mV					
	Temperature Regulation	0 to +50°C	40 mV	50 mV	75 mV	120 mV	150 mV	240 mV	360 mV	480 mV	
		-10 to -0°C	60 mV	75 mV	120 mV	180 mV	180 mV	290 mV	440 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	200 mV	200 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	240 mV	500 mV	
	Start-up Time	400typ (ACIN 100V/200V, Io=100%)									
	Hold-up Time	20typ (ACIN 100V/200V, Io=100%)									
	Line Regulation (max.)	20 mV		20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV	
Load Regulation (max.)	40 mV		40 mV	60 mV	100 mV	120 mV	150 mV	150 mV	300 mV		
Drift (mV)	12 mV		20 mV	30 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
Output Voltage Setting	3.30 - 3.40		5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92		
Output Voltage Adjustment Range	2.64 - 3.96		3.96 - 6.00	5.25 - 8.25	8.25 - 13.2	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00		
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)									
	Frequency(Hz)	50/60 (47 - 63)									
	Inrush Current	ACIN 100V	20/40typ (Io=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
		ACIN 200V	40/40typ (Io=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
	Current [A]	ACIN 100V	9typ		13typ						
		ACIN 200V	5typ		7typ						
	Power Factor	ACIN 100V	0.98typ (Io=100%)								
Efficiency	ACIN 100V	74typ	79typ	80typ	82typ	84typ	84typ	84typ	84typ		
	ACIN 200V	76typ	81typ	83typ	84typ	84typ	86typ	86typ	86typ		
Leakage Current	0.5/1.0max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)										
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)									
Safety	CE Marking	Low Voltage Directive, EMC Directive									
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
Protection Circuit	Remote On/Off	None									
	Overcurrent Protection	Works Over 105% of rated current & recovers automatically									
	Overvoltage Protection	Vo+0.66 - 1.32	Vo+1.0 - 2.0	Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12		
Environment	Operating Temp., Humid & Altitude	-20 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max									
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max									
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis									

Weight

Weight (approx.)	2,200g
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1500 W

Model No.	Voltage	DC Output (100 V)	DC Output (200 V)
65.1500.00.03	3.3 V	300 A	300 A
65.1500.00.05	5 V	300 A	300 A
65.1500.00.07	7.5 V	200 A	200 A
65.1500.00.12	12 V	125 A	125 A
65.1500.00.15	15 V	100 A	100 A
65.1500.00.24	24 V	65 A	70(105) A
65.1500.00.36	36 V	42 A	47(70) A
65.1500.00.48	48 V	32 A	32 A



Specifications

Model no.		65.1500.00.03	65.1500.00.05	65.1500.00.07	65.1500.00.12	65.1500.00.15	65.1500.00.24	65.1500.00.36	65.1500.00.48		
Output	Voltage	3.3 V	5V	7.5V	12V	15V	24V	36V	48V		
	Current	100 V	300 A	300 A	200 A	125 A	100 A	65 A	42 A	32 A	
		200 V	300 A	300 A	200 A	125 A	100 A	70(105) A	47(70) A	32 A	
	Max Output Wattage	990	1500	1500	1500	1500	1680	1692	1680		
	Ripple max.	0 to +50°C	80 mV	80 mV	120 mV	120 mV	120 mV	120 mV	150 mV	150 mV	
		-10 to -0°C	140 mV	140 mV	160 mV	400 mV					
	Temperature Regulation	0 to +50°C	40 mV	50 mV	75 mV	120 mV	150 mV	240 mV	360 mV	480 mV	
		-10 to -0°C	60 mV	75 mV	120 mV	180 mV	180 mV	290 mV	440 mV	600 mV	
	Ripple Noise max.	0 to +50°C	120 mV	120 mV	150 mV	150mV	150 mV	150 mV	200 mV	200 mV	
		-10 to -0°C	160 mV	160 mV	180 mV	180 mV	180 mV	180 mV	240 mV	500 mV	
	Start-up Time	600typ (ACIN 100V/200V, lo=100%)									
	Hold-up Time	20typ (ACIN 100V/200V, lo=100%)									
	Line Regulation (max.)	20 mV		20 mV	36 mV	48 mV	60 mV	96 mV	144 mV	192 mV	
	Load Regulation (max.)	40 mV		40 mV	60 mV	100 mV	120 mV	150 mV	150 mV	300 mV	
Drift (mV)	12 mV		20 mV	30 mV	48 mV	60 mV	96 mV	144 mV	192 mV		
Output Voltage Setting	3.30 - 3.40		5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92		
Output Voltage Adjustment Range	2.64 - 3.96		3.96 - 6.00	5.25 - 8.25	8.25 - 13.2	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00		
Input	Voltage	AC85 - 264 1 Ø or DC120 - 370 (AC50 or DC70)									
	Frequency(Hz)	50/60 (47 - 63)									
	Inrush Current	ACIN 100V	20/40typ (lo=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
		ACIN 200V	40/40typ (lo=100%) (Primary inrush current/secondary inrush current) (More then 3 sec. to re-start)								
	Current [A]	ACIN 100V	15typ	19typ							
		ACIN 200V	8typ	10typ							
	Power Factor	ACIN 100V	0.98typ (lo=100%)								
Efficiency	ACIN 100V	72typ	77typ	81typ	81typ	83typ	84typ	84typ	84typ		
	ACIN 200V	75typ	81typ	83typ	84typ	86typ	87typ	87typ	87typ		
Leakage Current	0.9/1.5max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1,DENAN)										
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MQmin (At Room Temperature)									
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MQmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MQmin (At Room Temperature)									
	Output-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MQmin (At Room Temperature)									
Safety	CE Marking	Low Voltage Directive, EMC Directive									
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
	Remote On/Off	None									
Protection Circuit	Overcurrent Protection	Works Over 105% of rated current & recovers automatically									
	Overvoltage Protection	Vo+0.66 - 1.32	Vo+1.0 - 2.0	Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12		
	Operating Indication	LED (Green)									
Environment	Operating Temp., Humid & Altitude	-20 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max									
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max									
	Impact	196.1m/s2 (20G), 11ms, once each X, Y and Z axis									
	Vibration	10 - 55Hz, 19.6m/s2 (2G), 3minutes period, 60minutes each along X, Y and Z axis									

Weight

Weight (approx.)	3,400g
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1500 W - Triple Input Phase

Model No.	Voltage	DC Output (100 V)
65.1500.03.05	5 V	300 A
65.1500.03.12	12 V	125 A
65.1500.03.24	24 V	70(105) A
65.1500.03.24	48 V	35 A



Specifications

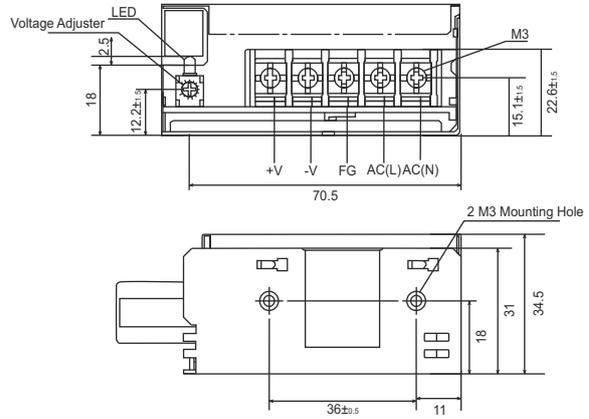
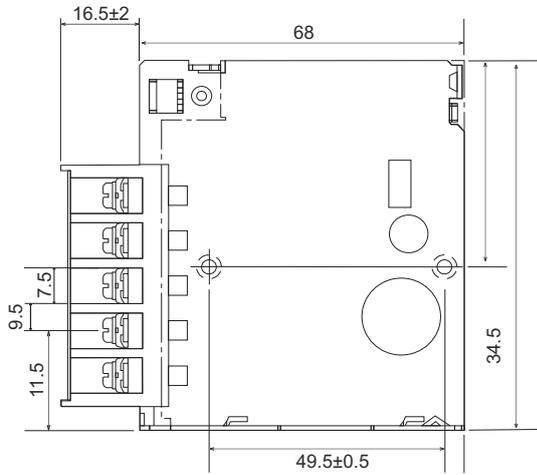
Model no.		65.1500.03.05	65.1500.03.12	65.1500.03.24	65.1500.03.24	
Output	Voltage	5V	12V	24V	48V	
	Current	300 A	125 A	70(105) A	35 A	
	Max Output Wattage	1500	1500	1680	1680	
	Ripple max.	0 to +50°C	80 mV	120 mV	120 mV	150 mV
		-10 to -0°C	140 mV	160 mV	160 mV	400 mV
	Temperature Regulation	0 to +50°C	50 mV	120 mV	240 mV	480 mV
		-10 to -0°C	75 mV	180 mV	290 mV	600 mV
	Ripple Noise max.	0 to +50°C	120 mV	150mV	150 mV	200 mV
		-10 to -0°C	160 mV	180 mV	180 mV	500 mV
	Start-up Time	300typ (ACIN 100V, Io=100%)				
	Hold-up Time	20typ (ACIN 100V, Io=100%)				
	Line Regulation (max.)	20 mV	48 mV	96 mV	192 mV	
	Load Regulation (max.)	40 mV	100 mV	150 mV	300 mV	
Drift (mV)	20 mV	48 mV	96 mV	192 mV		
Output Voltage Setting	3.96 - 6.00	8.25 - 13.20	16.50 - 26.40	38.40 - 56.00		
Output Voltage Adjustment Range	5.00 - 5.15	12.00 - 12.48	24.00 - 24.96	48.00 - 49.92		
Input	Voltage	AC170 - 264 3 Ø				
	Frequency(Hz)	50/60 (47 - 63)				
	Inrush Current	ACIN 200V	40/40typ (Io=100%) (Primary inrush current/Secondary inrush current) (More than 10 sec. to restart)			
	Current [A]	ACIN 200V	6typ			
	Power Factor	ACIN 200V	0.95typ (Io= 100%)			
	Efficiency	ACIN 200V	81typ	84typ	87typ	87typ
Leakage Current	1.5max (ACIN 100v/240V 60Hz, Io=100%)					
Insolation	Input-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)				
	Input-Output	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)				
	Output.RC. AUX-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)				
	Output- Aux	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)				
Safety	CE Marking	Low Voltage Directive, EMC Directive				
	Conducted Noise	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B				
Protection Circuit	Remote On/Off	None				
	Overcurrent Protection	Works Over 150% of rated current & recovers automatically				
	Overvoltage Protection	Vo+1.0 - 2.00	Vo+2.4 - 4.8	Vo+4.8 - 9.6	Vo+2.0 - 12.0	
	Operating Indication	LED (Green)				
Environment	Operating Temp., Humid & Altitude	-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max				
	Storage Temp., Humid. & Altitude	-20 to +75C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max				
	Impact	196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
	Vibration	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis				

Weight

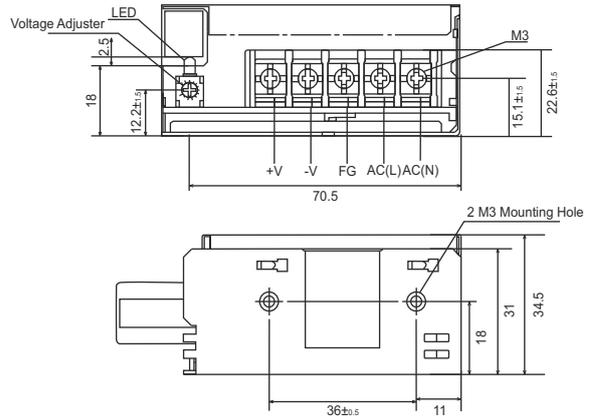
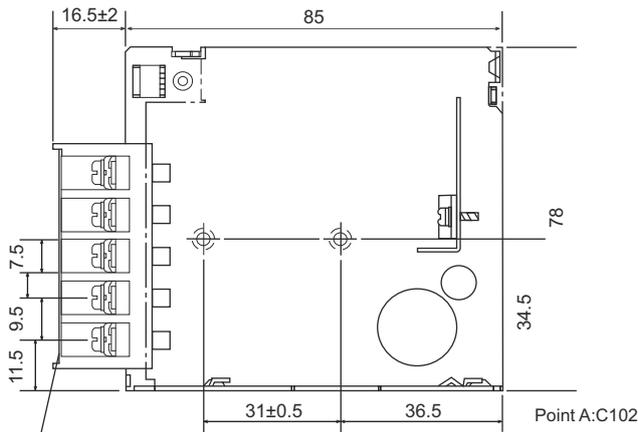
Weight (approx.)	150g
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Dimensions

10 W

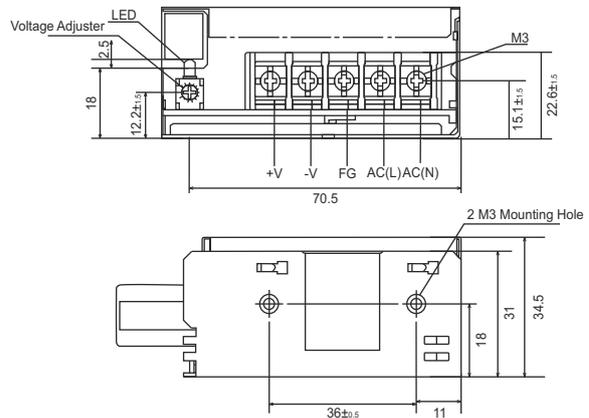
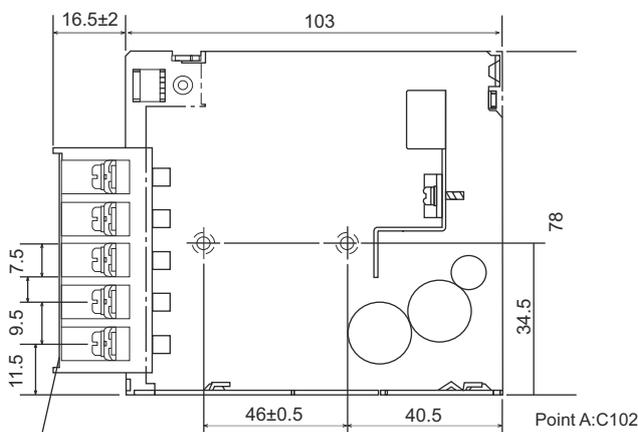


15 W



Terminal Cover

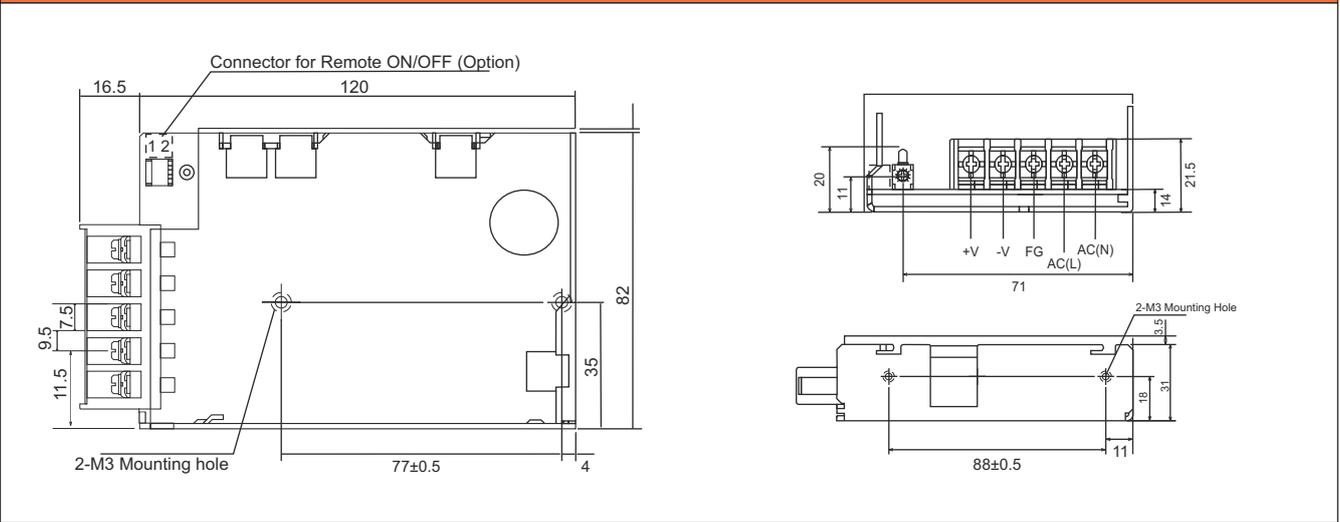
30 W



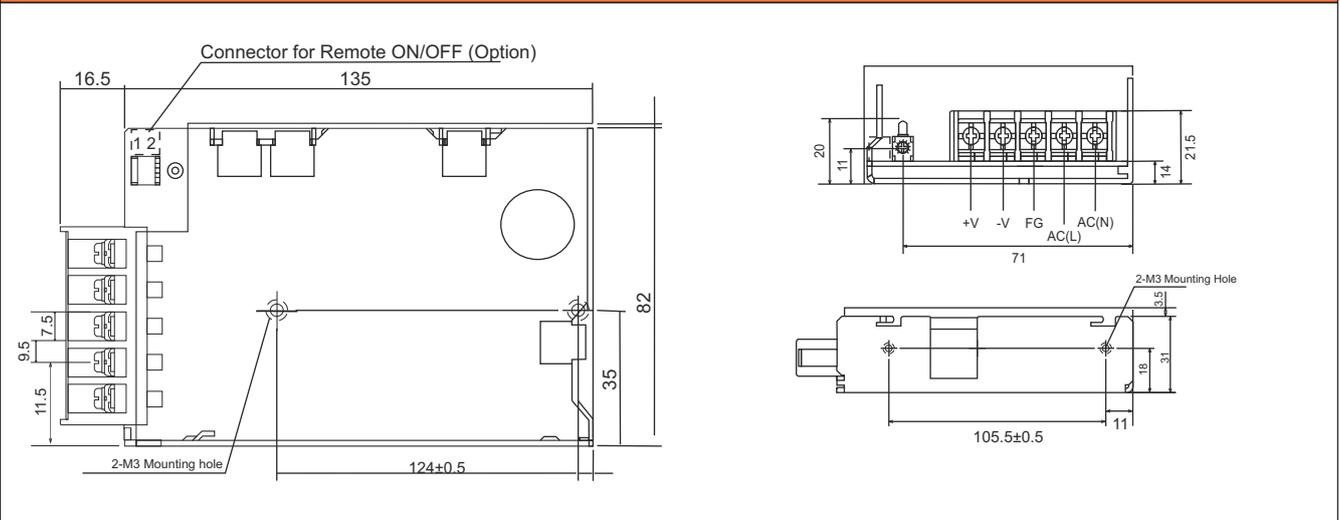
Terminal Cover

Dimensions

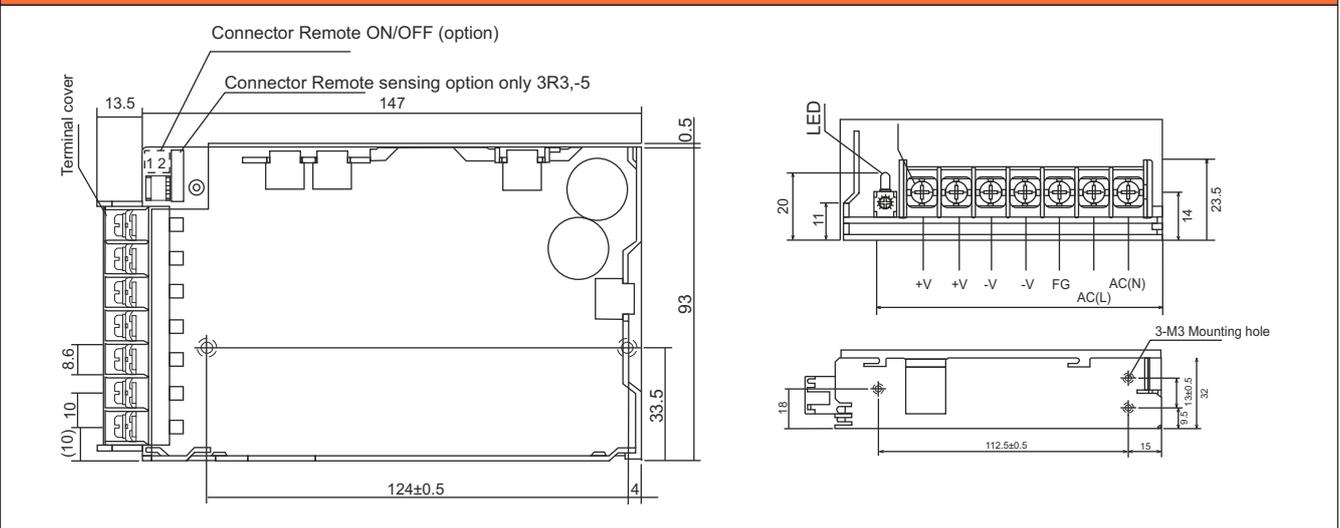
50 W



75 W



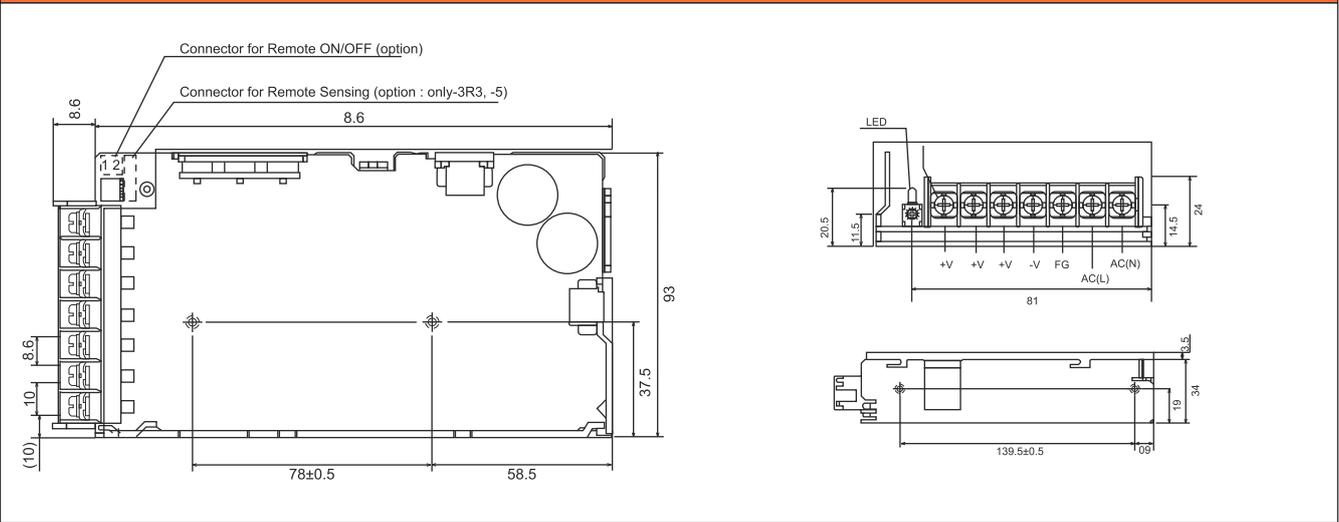
100 W



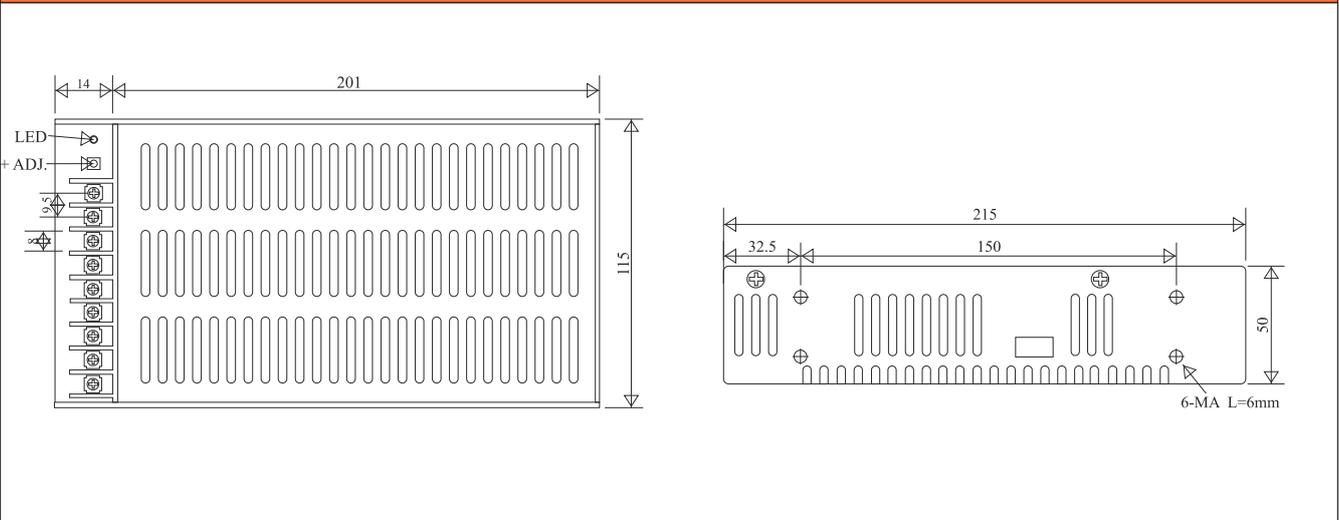
** Refers to Voltage types - Page no.4

Dimensions

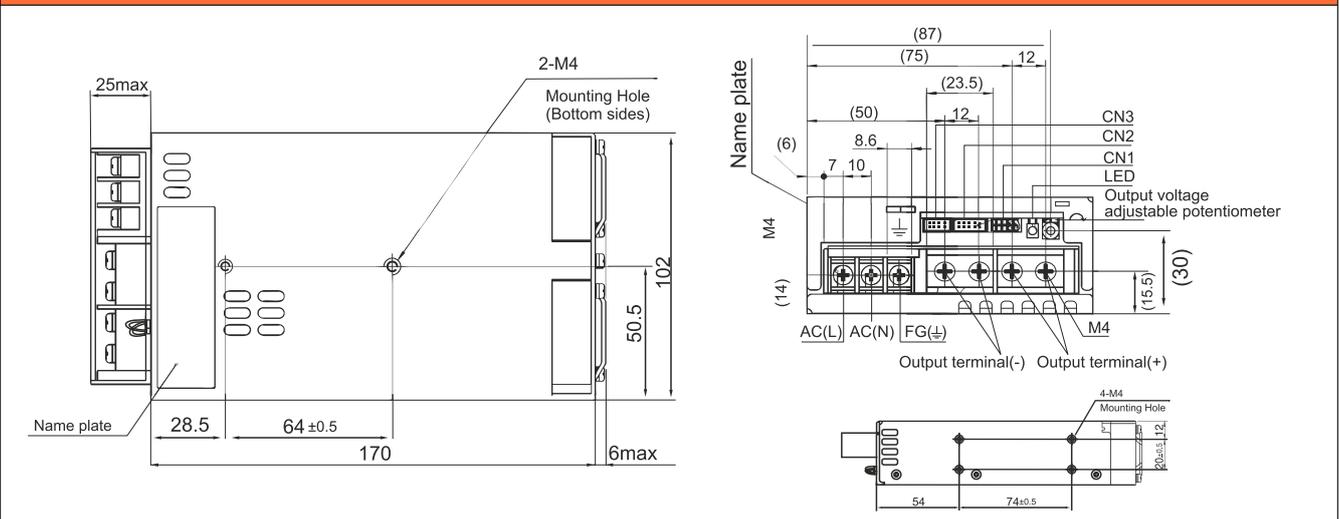
150 W



250 W

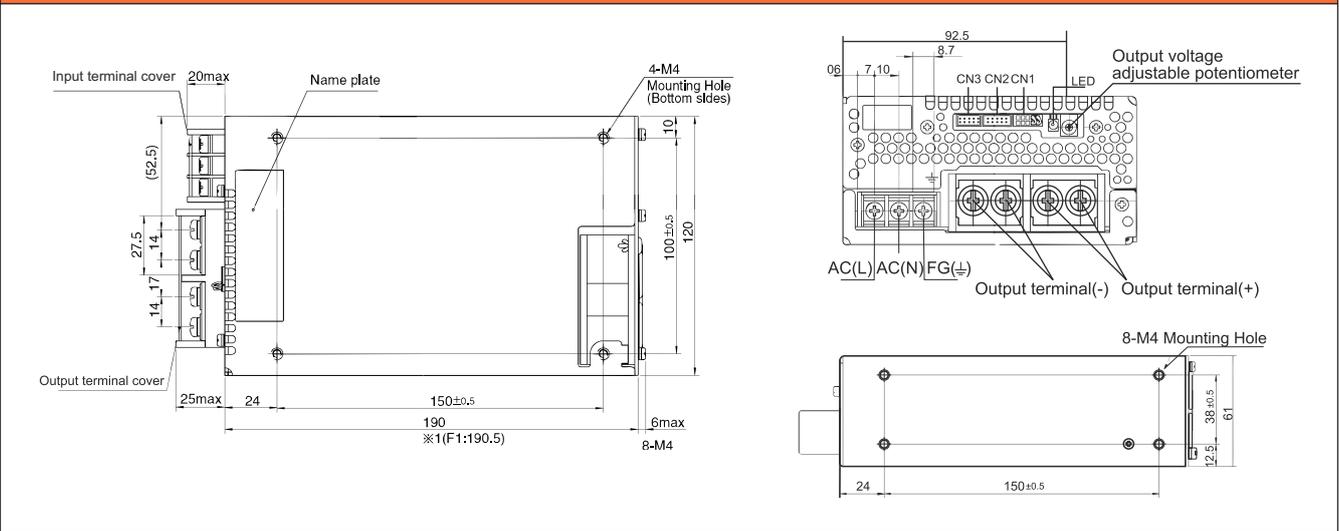


300 W

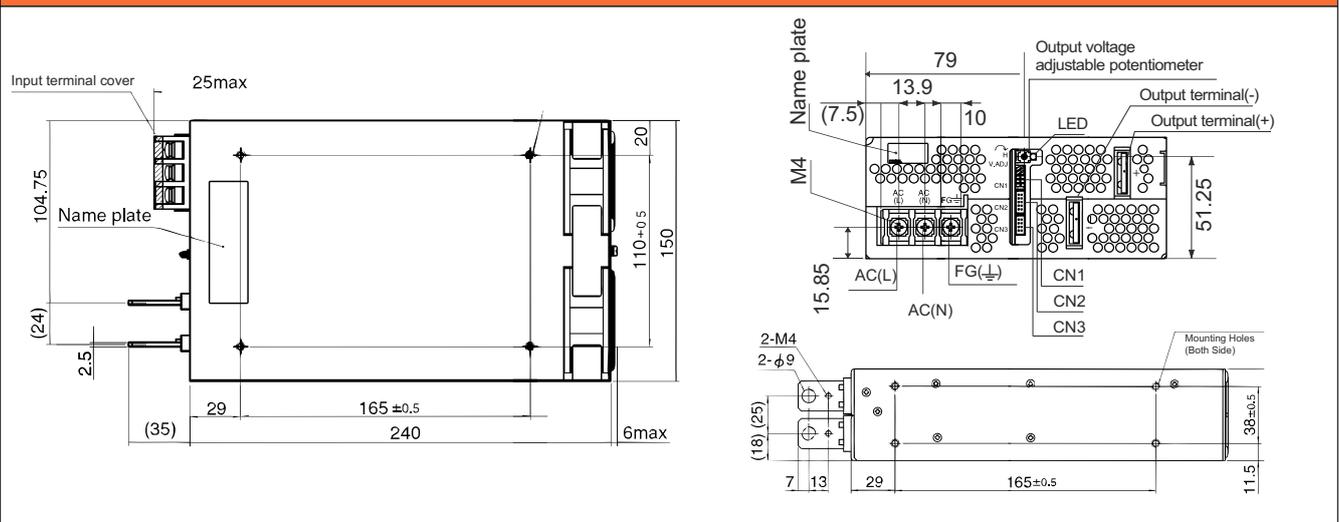


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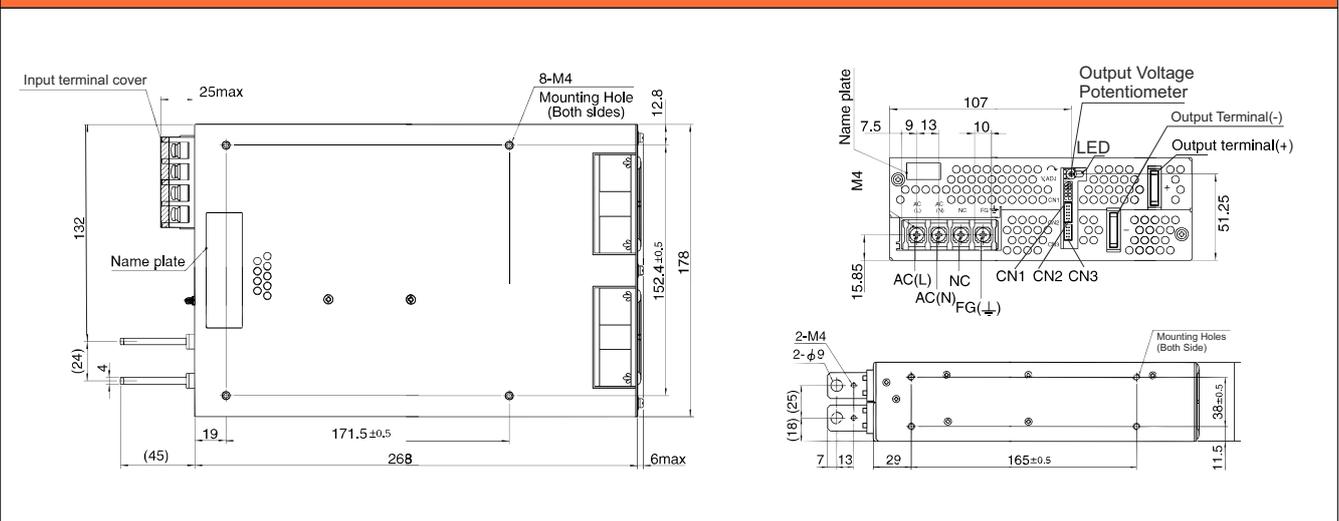
600 W



1000 W



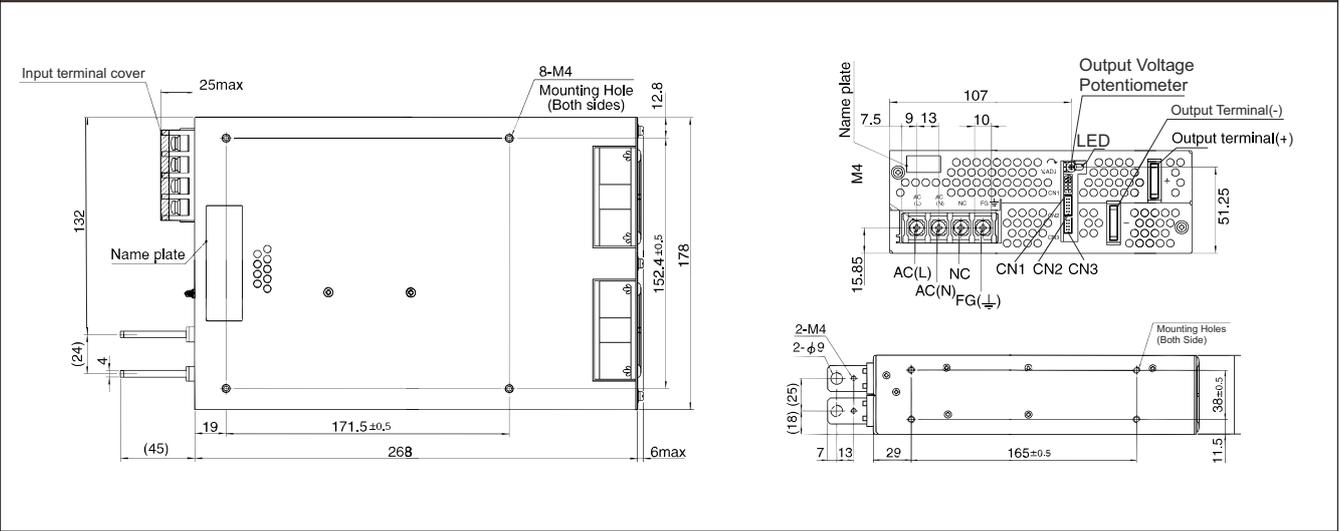
1500 W



** Refers to Voltage types - Page no.4

Dimensions

1500 W - Triple Input Phase





Terms And Conditions

Please read this catalog before purchasing any products. Please consult your *WERNER* representative for any clarifications or comments.

Application Considerations

WERNER shall not be responsible for conformity with any regulations, codes or standards that apply to use of the products. *WERNER* shall provide applicable third party certification documents identifying ratings and limitations of use that apply to the products in case of the customer's request.

Prevent use the products for an application involving risk to life or property. Be sure that the *WERNER*'s products are properly rated and installed for the overall system or equipment.

WERNER shall not be responsible for the user's programming of a programmable products.

Warranty

WERNER's warranty represents that the products are free from defects in materials and workmanship for a period of one year.

WERNER shall not be responsible for any special loss of profit, commercial loss, indirect or consequential damages relevant to products.

WERNER shall not be responsible for repair, warranty or any claims regarding the products unless *WERNER*'s Analysis confirm that the products were properly stored, installed, handled, maintained and not a result of accident, insufficient, abuse, misuse, natural disaster, improper installation excessive electrical supply, environmental conditions or abnormal mechanical.

Disclaimers

WERNER shall practice to change type/model numbers when published ratings or features are changed, however some specifications of the products may be changed without any notice.

When in doubt, please consult with your *WERNER* representative to confirm actual specifications of products.

WERNER shall change product specifications and accessories at any time based on improvements and other reasons.

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