



Medical Power Supply Series

Compact Size · High Isolation · Ultra-Low Leakage Current · Global Certifications

Product View

Rorinks Medical Power Supply series offers DC-DC 1-2W and AC-DC 10-250W, including both module type and open frame products. Featuring compact size. Fully complies with IEC/EN60601-1, 2*MOOP and EMC standards. Ideal for medical application requirements



DC-DC 1-2W



AC-DC 10-30W



Open Frame 45-250W

Key Features

DC-DC Features

- Isolation Voltage 5kVAC / 6kVDC, Reinforced Insulation
- Clearance & Creepage Distance > 5mm
- Ultra-Low Isolation Capacitance < 12pF
- Maximum Patient Leakage Current 2 μ A

AC-DC Features

- Isolation withstand voltage up to 5KVAC.
- $\leq 75\mu$ A ultra-low leakage current – safe for close human contact.
- Built-in EMI filter – factory compliant with Class B, no external filter needed.
- 4-in-1 hardware protection (OLP/OVP/SCP/OTP) – instant fault lockout.
- Customization available

Medical Power Supply Series

Typical Applications



Diagnostic Imaging



Clinical Monitoring



Home Healthcare



Hospital Support

Product Series Overview

Series	Power(W)	Isolation Voltage	Package Type	Input Voltage Range	Output Voltage Range(V)	Dimension(mm)
AMG_S-1W/2WR3	1-2W	5KVAC 6KVDC	Module	3.3,5,12,15,24 DC($\pm 10\%$)	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	19.5*9.8*12.5
AMH_S-1W/2WR3	1-2W	5KVAC 6KVDC	Module	5,12,15,24 DC($\pm 10\%$)	3.3,5,9,12,15,24	19.5*9.8*12.5
QH10-23BxxMU	10	4000	Module	85-305VAC	5,9,12,15,24	45*25.4*15.5
QH15-23BxxMU	15	4000	Module	85-305VAC	5,12,15,24,48	62*45*23
QH20-20BxxMU	20	4000	Module	85-264VAC	5,9,12,15,24	54.5*29.2*23.6
QH25-20BxxMU	25	4000	Module	85-264VAC	5,12,15,24,48	70*48*23.5
QH30-20BxxMU	30	4000	Module	85-264VAC	9,12,15,24	54.5*29.2*23.6
ADS-45-XXMU	45	4000	Open Frame	85-264VAC	5,12,15,24,36,48	76.2*50.8*28
ADS-65-XXMU	65	4000	Open Frame	90-305VAC	5,12,15,24,36,48	76.2*50.8*27
ADF-120-XXMU	120	4000	Open Frame	90-264VAC	12,15,24,27,36,48	101.6*50.8*32
ADF-250-XXMU	250	4000	Open Frame	90-264VAC	12,15,24,27,36,48	101.6*50.8*32

RORINKS ELECTRONIC CO., LTD.

Mail: corp@scanti.com

Tel: +7 (499) 551-9991/+7 (812) 380-8391/+375 (17) 317-2162

Website : www.scanti.ru

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AMG(H)_S-1WR3 Selection Guide

Model	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) Max./Min.	Efficiency (%) @ Full Load
AMG0305S-1WR3	3.3 (2.97-3.63)	±5	±100/±10	72/76
AMG0312S-1WR3		±12	±42/±5	74/78
AMG0315S-1WR3		±15	±34/±4	76/80
AMG0505S-1WR3	5 (4.5-5.5)	±5	±100/±10	76/80
AMG0509S-1WR3		±9	±56/±6	76/80
AMG0512S-1WR3		±12	±42/±5	77/81
AMG0515S-1WR3		±15	±34/±4	77/81
AMH0505S-1WR3		5	200/20	76/80
AMH0509S-1WR3		9	111/11	76/80
AMH0512S-1WR3		12	84/9	77/81
AMH0515S-1WR3		15	67/7	77/81
AMG1205S-1WR3	12 (10.8-13.2)	±5	±100/±10	70/74
AMG1209S-1WR3		±9	±56/±6	76/80
AMG1212S-1WR3		±12	±42/±5	77/81
AMG1215S-1WR3		±15	±34/±4	77/81
AMH1205S-1WR3		5	200/20	76/80
AMH1212S-1WR3		12	84/9	77/81
AMH1215S-1WR3		15	67/7	77/81
AMG2405S-1WR3	24 (21.6-26.4)	±5	±100/±10	71/75
AMG2409S-1WR3		±9	±56/±6	71/75
AMG2412S-1WR3		±12	±42/±5	72/76
AMG2415S-1WR3		±15	±34/±4	72/76
AMH2405S-1WR3		5	200/20	72/76
AMH2412S-1WR3		12	84/9	72/76
AMH2415S-1WR3		15	67/7	72/76

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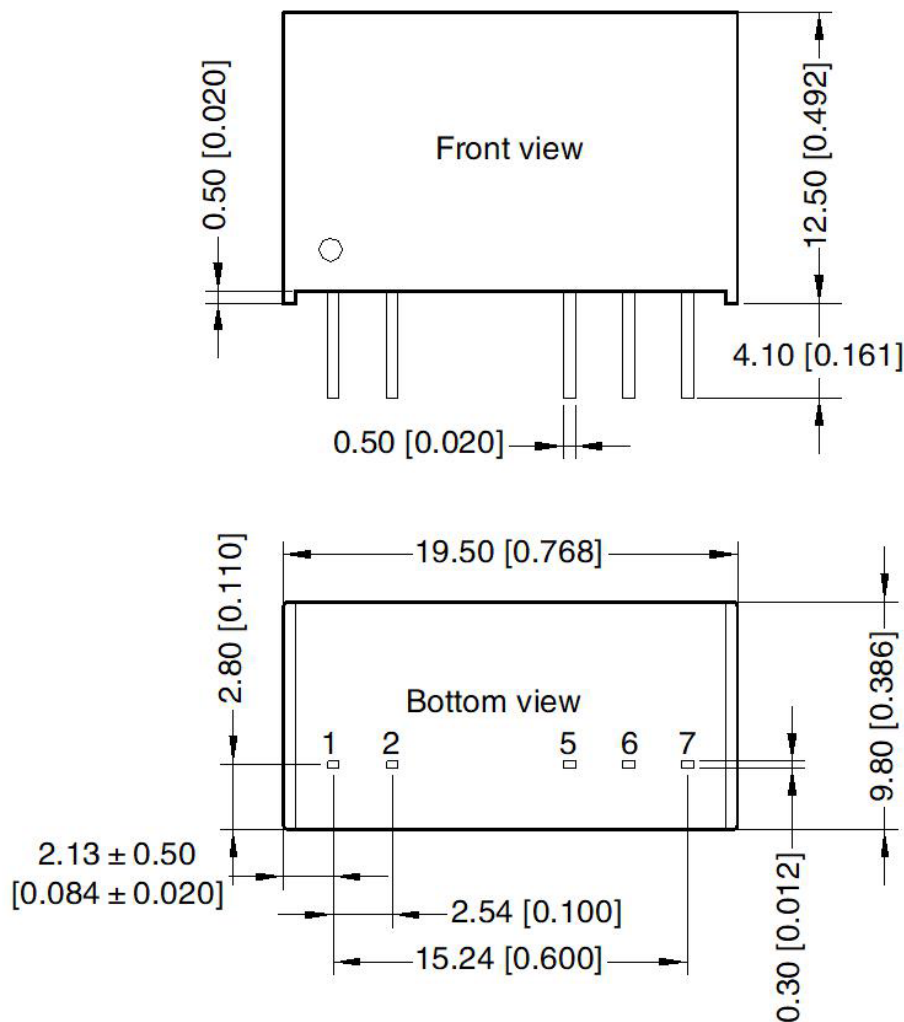
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AMG(H)_S-1WR3 Dimensions and Pin Functions



Note:

Dimensions in mm [inch]

Terminal diameter tolerance: ± 0.10 [± 0.004]

Undeclared tolerance: ± 0.50 [± 0.020]

Pin	Function
1	Vin
2	GND
5	-Vo
6	0V
7	+Vo

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AMG(H)_S-2WR3 Selection Guide

Model	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) Max./Min.	Efficiency (%) @ Full Load
AMH0505S-2WR3	5 (4.5-5.5)	5	400/40	77
AMH0509S-2WR3		9	222/22	78
AMH0512S-2WR3		12	167/17	80
AMH0515S-2WR3		15	133/13	83
AMH0524S-2WR3		24	83/8	85
AMG1203S-2WR3	12 (10.8-13.2)	± 3.3	$\pm 303/\pm 30$	69/73
AMG1205S-2WR3		± 5	$\pm 200/\pm 20$	76/80
AMG1209S-2WR3		± 9	$\pm 111/\pm 11$	78/82
AMG1212S-2WR3		± 12	$\pm 83/\pm 9$	79/83
AMG1215S-2WR3		± 15	$\pm 67/\pm 7$	80/84
AMG1224S-2WR3		± 24	$\pm 42/\pm 5$	79/83
AMH1203S-2WR3		3.3	400/40	76/80
AMH1205S-2WR3		5	400/40	76/80
AMH1209S-2WR3		9	222/22	78/82
AMH1212S-2WR3		12	167/17	80/84
AMH1215S-2WR3		15	133/14	80/84
AMH1224S-2WR3		24	84/8	77/81
AMG1505S-2WR3	15 (13.5-16.5)	± 5	$\pm 200/\pm 20$	74/78
AMG1509S-2WR3		± 9	$\pm 111/\pm 11$	76/80
AMG1515S-2WR3		± 15	$\pm 67/\pm 7$	76/80
AMH1505S-2WR3		5	400/40	76/80
AMH1515S-2WR3		15	133/14	79/83
AMG2403S-2WR3	24 (21.6-26.4)	± 3.3	$\pm 303/\pm 30$	69/73
AMG2405S-2WR3		± 5	$\pm 200/\pm 20$	75/79
AMG2409S-2WR3		± 9	$\pm 111/\pm 11$	77/81
AMG2415S-2WR3		± 15	$\pm 67/\pm 7$	77/81
AMG2424S-2WR3		± 24	$\pm 42/\pm 5$	70/74
AMH2405S-2WR3		5	400/40	75/79
AMH2409S-2WR3		9	222/22	77/81
AMH2412S-2WR3		12	167/17	78/82
AMH2415S-2WR3		15	133/14	80/84
AMH2424S-2WR3		24	84/8	80/84

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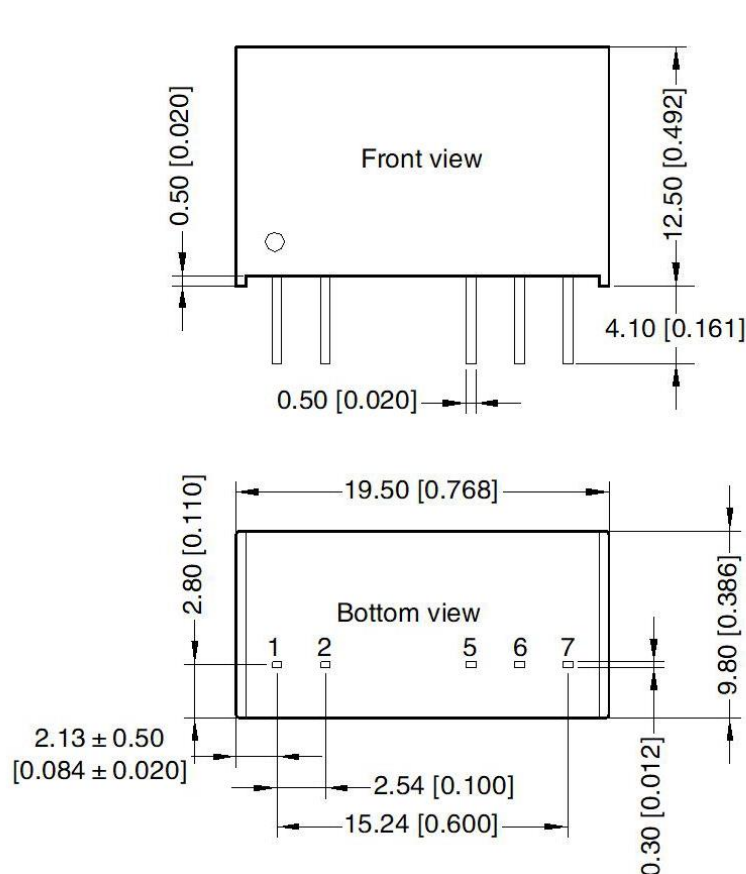
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AMG(H)_S-2WR3 Dimensions and Pin Functions



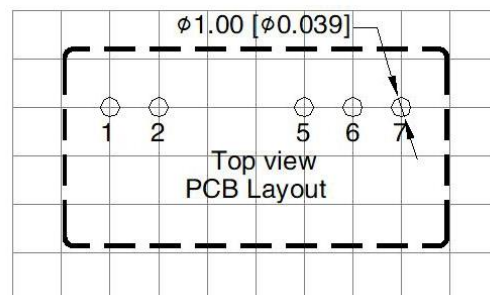
Note:

Dimensions in mm [inch]

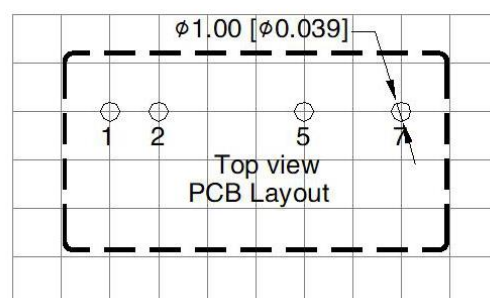
Terminal diameter tolerance: ± 0.10 [± 0.004]

Undeclared tolerance: ± 0.50 [± 0.020]

Dual



Single



Note: Grid 2.54*2.54mm

Pin	Function	
	Single	Dual
1	Vin	Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+Vo	+Vo

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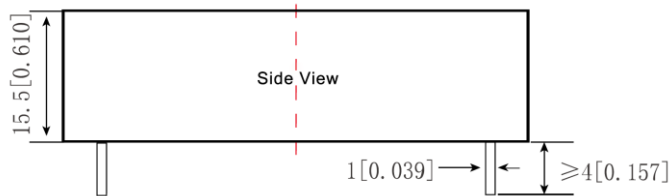
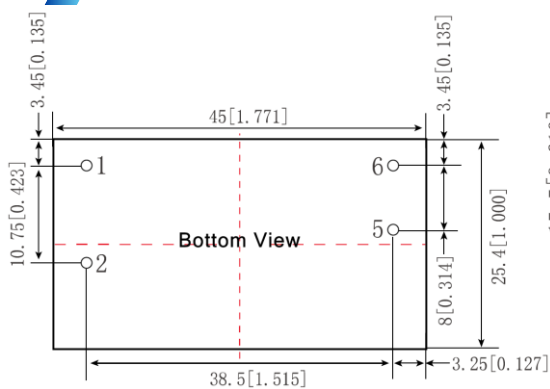
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QH10-23BxxMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Output Current(A)	Ripple & Noise	Efficiency(%)
QH10-23B05MU	85-305VAC 100-430VDC	10	5	2	100	78
QH10-23B09MU		10	9	1.05	100	80
QH10-23B12MU		10	12	0.83	100	84
QH10-23B15MU		10	15	0.66	100	84
QH10-23B24MU		10	24	0.42	100	86

Dimensions and Pin Functions



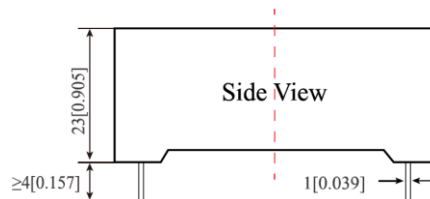
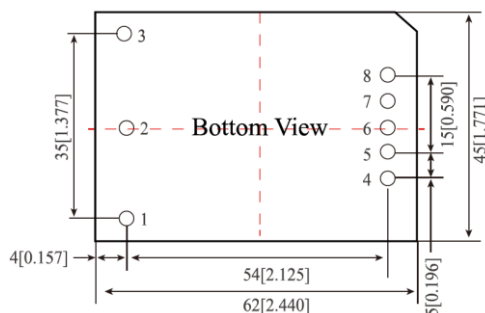
Pin	Function
1	AC(N)
2	AC(L)
5	+Vo
6	-Vo

NOTE:
Unit: mm [inch] Terminal length: ≥4.0mm
Tolerance unless otherwise stated: ±0.5mm

QH15-23BxxMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Output Current(A)	Ripple & Noise	Efficiency(%)
QH15-23B05MU	85-305VAC 100-430VDC	15	5	3	50	77
QH15-23B12MU		15	12	1.25	50	86
QH15-23B15MU		15	15	1	50	83
QH15-23B24MU		15	24	0.625	50	86
QH15-23B48MU		15	48	0.3125	50	88

Dimensions and Pin Functions



NOTE:
Unit size: mm[inch]
Terminal tolerance: ±0.1mm
Unmarked tolerances: ±0.5mm

Pin	Function	Pin	Function
1	FG	5	No Pin
2	AC(N)	6	No Pin
3	AC(L)	7	No Pin
4	-Vo	8	+Vo

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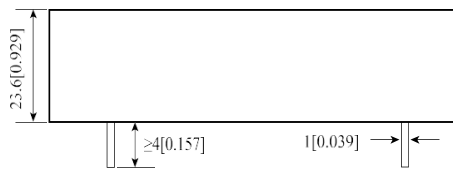
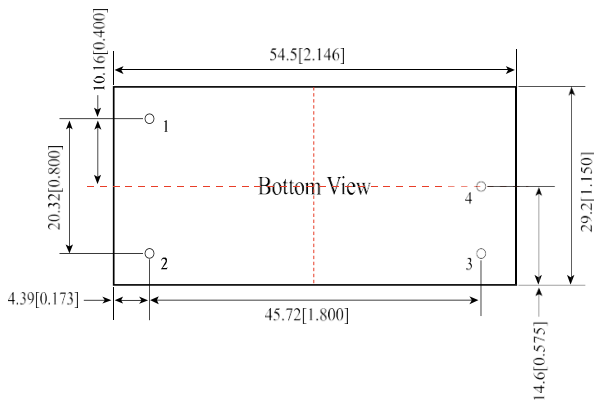
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QH20-20BxxMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Output Current(A)	Ripple & Noise	Efficiency(%)
QH20-20B05MU	85-264VAC 100-370VDC	20	5	4	50	84
QH20-20B09MU		20	9	2.22	50	84
QH20-20B12MU		20	12	1.66	50	87
QH20-20B15MU		20	15	1.33	50	88
QH20-20B24MU		20	24	0.83	50	84

Dimensions and Pin Functions



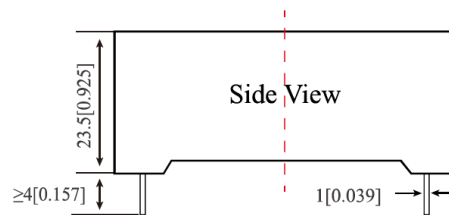
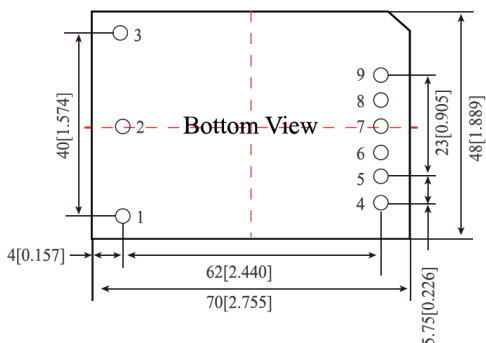
NOTE:
Unit size: mm[inch]
Terminal tolerance: $\pm 0.1\text{mm}$
Unmarked tolerances: $\pm 0.5\text{mm}$

Pin	Function
1	AC(N)
2	AC(L)
3	+Vo
4	-Vo

QH25-20BxxMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Output Current(A)	Ripple & Noise	Efficiency(%)
QH25-20B05MU	85-264VAC 100-370VDC	25	5	5	50	77
QH25-20B12MU		25	12	2.1	50	83
QH25-20B15MU		25	15	1.66	50	83
QH25-20B24MU		25	24	1.05	50	86
QH25-20B48MU		25	48	0.52	50	88

Dimensions and Pin Functions



NOTE:
Unit size: mm[inch]
Terminal tolerance: $\pm 0.1\text{mm}$
Unmarked tolerances: $\pm 0.5\text{mm}$

Pin	Function	Pin	Function
1	FG	6	No Pin
2	AC(N)	7	No Pin
3	AC(L)	8	No Pin
4	No Pin	9	+Vo
5	-Vo		

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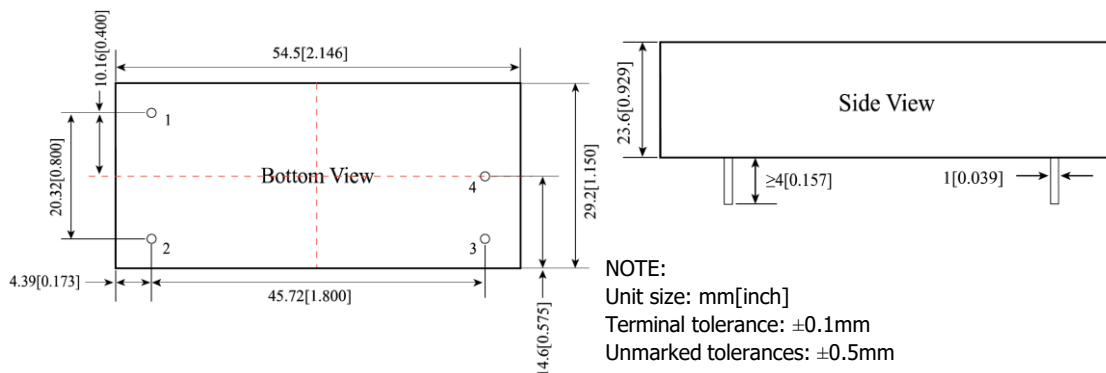
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QH30-20BxxMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Output Current(A)	Ripple & Noise	Efficiency(%)
QH30-20B09MU	85-264VAC 100-370VDC	30	9	3.34	50	84
QH30-20B12MU		30	12	2.5	50	87
QH30-20B15MU		30	15	2	50	88
QH30-20B24MU		30	24	1.25	50	86

Dimensions and Pin Functions



Pin	Function
1	AC(N)
2	AC(L)
3	+Vo
4	-Vo

ADS-45-XXMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Voltage Adjustable Range (V)	Output Current(A)	Ripple & Noise	Efficiency (%)
ADS-65-05MU	90-305VAC 100-430VDC	65	5	4.5-5.5	12	75	84
ADS-65-12MU		65	12	11.8-13.3	5.42	75	88
ADS-65-15MU		65	15	13.7-16.3	4.34	75	88
ADS-65-24MU		65	24	22.9-25.8	2.71	80	88
ADS-65-36MU		65	36	32.4-39.6	1.81	100	90
ADS-65-48MU		65	48	45-53.2	1.35	100	90

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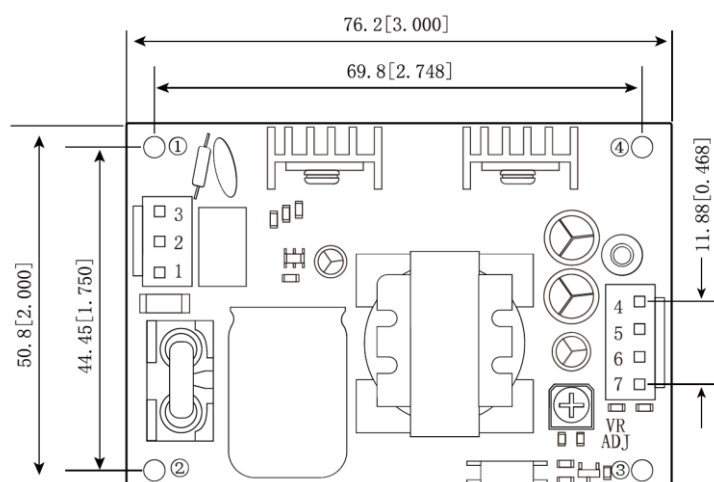
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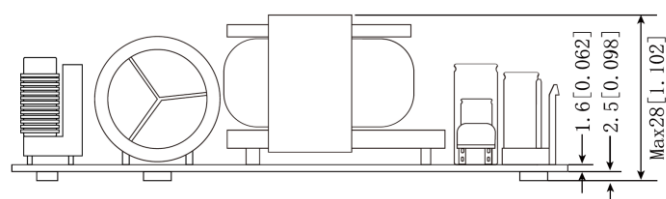
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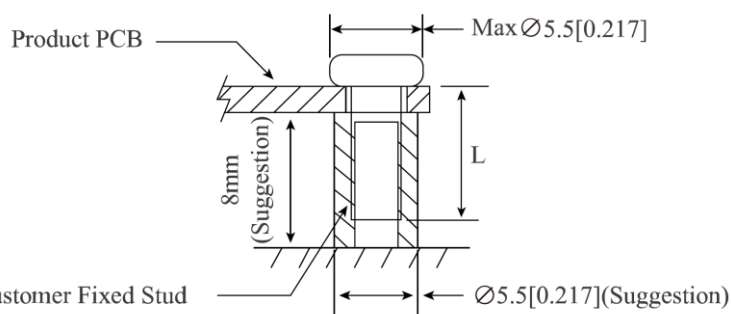
Dimensions and Pin Functions



Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(N)	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(L)	
CN2	4/5	+Vo	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	6/7	-Vo	



Installation location	Screw Specifications	L(Suggestion)	Torque (max)
①-④	M3	6mm	0.4N ·m



NOTE:

Unit size: mm[inch] Unmarked tolerances: $\pm 0.5\text{mm}$

CLASS I system: Mounting holes marked with □ must be connected to safety earth

CLASS II system: Unnecessary to connect with safety earth

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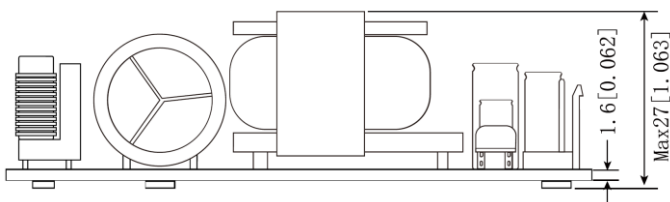
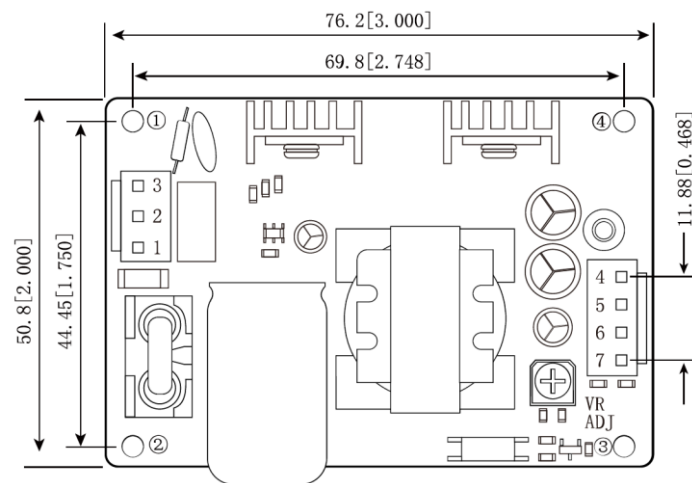
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Medical Power Supply Series

ADS-65-XXMU Selection Guide

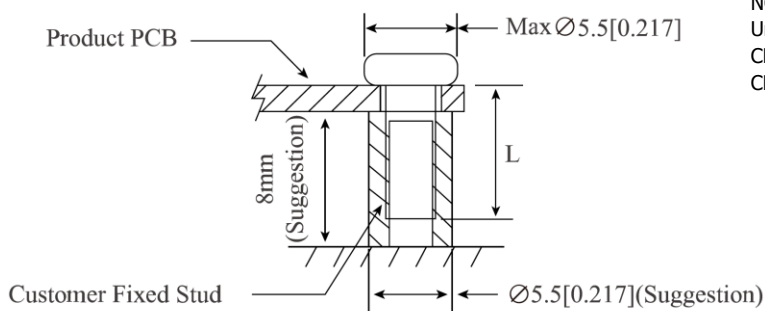
Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Voltage Adjustable Range (V)	Output Current(A)	Ripple & Noise	Efficiency (%)
ADS-65-05MU	90-305VAC 100-430VDC	65	5	4.5-5.5	12	75	84
ADS-65-12MU		65	12	11.8-13.3	5.42	75	88
ADS-65-15MU		65	15	13.7-16.3	4.34	75	88
ADS-65-24MU		65	24	22.9-25.8	2.71	80	88
ADS-65-36MU		65	36	32.4-39.6	1.81	100	90
ADS-65-48MU		65	48	45-53.2	1.35	100	90

Dimensions and Pin Functions



Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(N)	Connector: JST VHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(L)	
CN2	4/5	+Vo	Connector: JST VHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	6/7	-Vo	

Installation location	Screw Specifications	L(Suggestion)	Torque (max)
①-④	M3	6mm	0.4N · m



NOTE:

Unit size: mm[inch] Unmarked tolerances: ±0.5mm

CLASS I system: Mounting holes marked with □ must be connected to safety earth

CLASS II system: Unnecessary to connect with safety earth

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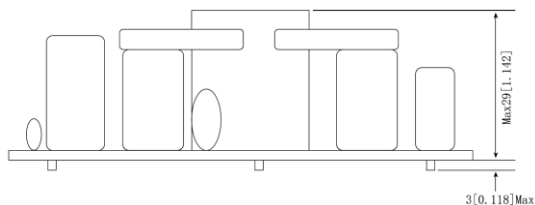
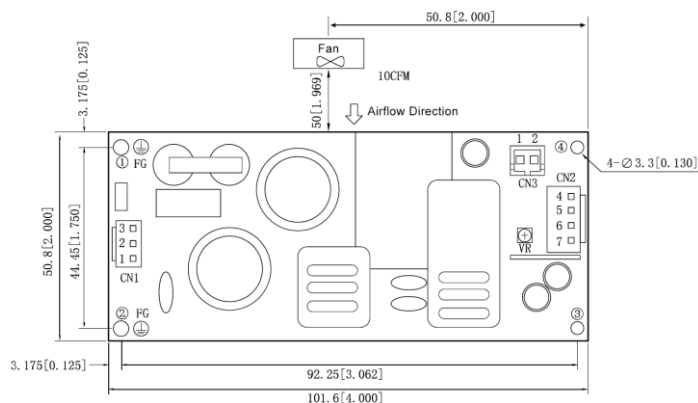
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ADF-120-XXMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Voltage Adjustable Range (V)	Output Current(A)	Ripple & Noise	Efficiency (%)
ADF-120-12MU	90-264VAC 100-370VDC	120	12	11.7-12.5	10	120	89
ADF-120-15MU		120	15	14.3-16.4	8	120	91
ADF-120-24MU		120	24	22.6-25.4	5	120	90
ADF-120-27MU		120	27	25.0-32.7	4.44	120	91
ADF-120-36MU		120	36	33.3-38.7	3.33	240	89
ADF-120-48MU		120	48	44.7-53.3	2.5	240	92

Dimensions and Pin Functions

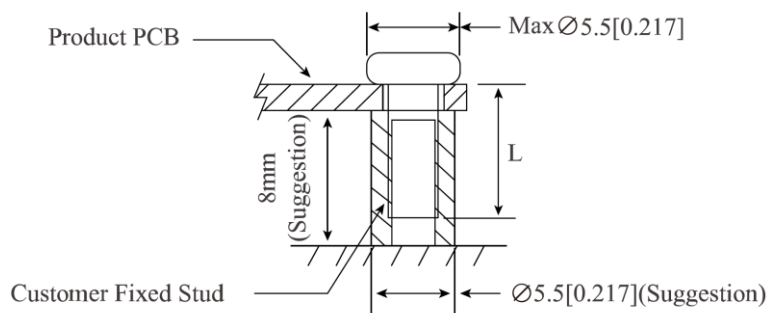


Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(N)	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(L)	
CN2	4/5	+Vo	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	6/7	-Vo	
CN3	1	DC COM	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	2	+12V	

Installation location	Screw Specifications	L(Suggestion)	Torque (max)
①-④	M3	6mm	0.4N ·m

NOTE:

Unit size: mm[inch] Unmarked tolerances: ± 0.5 mm



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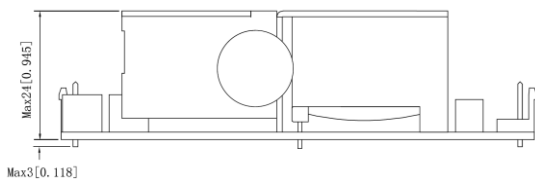
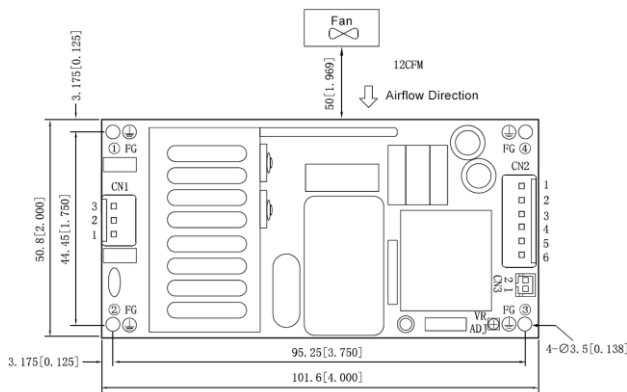
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Medical Power Supply Series

ADF-250-XXMU Selection Guide

Model	Input Voltage	Rated Power(W)	Output Voltage(V)	Voltage Adjustable Range (V)	Output Current(A)	Ripple & Noise	Efficiency (%)
ADF-120-12MU	90-264VAC 100-370VDC	250	12	11.7-12.5	20.83	120	91
ADF-120-15MU		250	15	14.3-15.8	16.67	120	91
ADF-120-24MU		250	24	22.9-24.8	10.41	240	92
ADF-120-27MU		250	27	26.5-27.8	9.26	240	93
ADF-120-36MU		250	36	33.5-38	6.94	240	93
ADF-120-48MU		250	48	45.2-53.5	5.2	240	93

Dimensions and Pin Functions

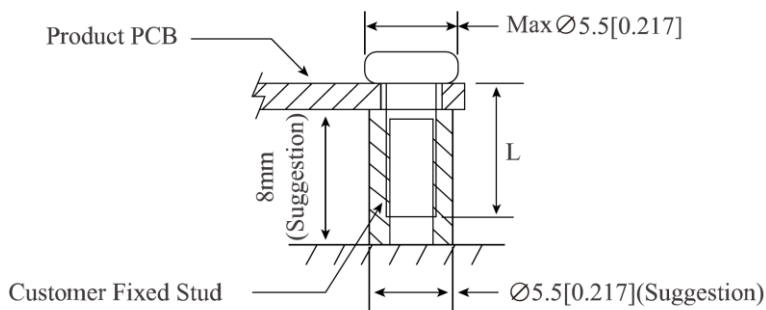


Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(N)	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(L)	
CN2	1-3	+Vo	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	4-6	-Vo	
CN3	1	+12V	Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products
	2	COM	

Installation location	Screw Specifications	L(Suggestion)	Torque (max)
①-④	M3	6mm	0.4N ·m

Note:

Unit size: mm[inch] Unmarked tolerances: ±0.5mm



RORINKS ELECTRONIC CO., LTD.

Mail: corp@scanti.com

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