



## 65W 2"x4" Open Frame Medical Power Supply Series



### Features

- 2x4" Footprint
- 5000 Meter Operating Altitude
- OVP, SCP and OCP
- < 100 $\mu$ A Touch Current
- Meets IEC 60601-1-2 Edition 4
- Low Cost
- Class B EMI
- Meets DOE Level VI
- Class II Design
- 2X MOPP

### Applications

- Medical

### Safety Approvals

- ANSI/AAMI ES 60601-1
- IEC/EN 60601-1

### Mechanical Characteristics

- Length: 101.6mm (4in)
- Width: 50.8mm (2in)
- Height: 28.1mm (1.12in)
- Weight: 141g (4.97oz)

### Output Specifications

Model	Output Voltage	Max Current	Output Power	Regulation	Ripple & Noise <sup>1</sup> P-P(max)
PML065-120	12V	5A	60W	$\pm$ 5%	150mV
PML065-150	15V	4.34A	65W	$\pm$ 5%	150mV
PML065-180	18V	3.62A	65W	$\pm$ 5%	180mV
PML065-190	19V	3.43A	65W	$\pm$ 5%	190mV
PML065-240	24V	2.71A	65W	$\pm$ 5%	240mV
PML065-480	48V	1.36A	65W	$\pm$ 5%	480mV

Notes: 1. 20 MHz bandwidth frequency oscilloscope and add a 0.1  $\mu$ F multilayer cap. and a Low ESR electrolytic cap. (10  $\mu$ F) at output connector terminals. (at nominal line voltage, full load)

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**INPUT:****AC Input Voltage Range**

90 to 264VAC

**AC Input Current**

1.6A max

**Leakage Current**

&lt;0.1mA

**AC Input Frequency**

50-60Hz

**AC Inrush Current**

80A max/230VAC

(cold start at 25°C, full load)

**Input Power Saving** $\leq 0.21\text{W}$  at 230VAC, no load**OUTPUT:****Efficiency** $\geq 88\%$  average at 115VAC & 230VAC**Over Voltage Protection**

V out 150%

**Short Circuit Protection**

Auto-recovery after short-circuit fault being removed

**Over Current Protection**

I out 180%

**ENVIRONMENTAL:****Temperature**

Operation 0 to +50°C

Non-operation -20 to +80°C

**Humidity**

Operating 20% to 80%

Storage 10% to 90%

**EMC**

Complies with FCC Class B Part 18

Complies with CISPR 11 Class B

Complies with IEC 60601-1-2 (Ed 4)

**Dielectric Strength**

Cut off current 10mA

Primary to secondary 4000VAC for 1min

**Insulation Resistance**

Primary to secondary 10M ohm for 500VDC

**Input Connector**

GEH-OSWEGO 3961-03N2 equivalent to JST B2P3-VH

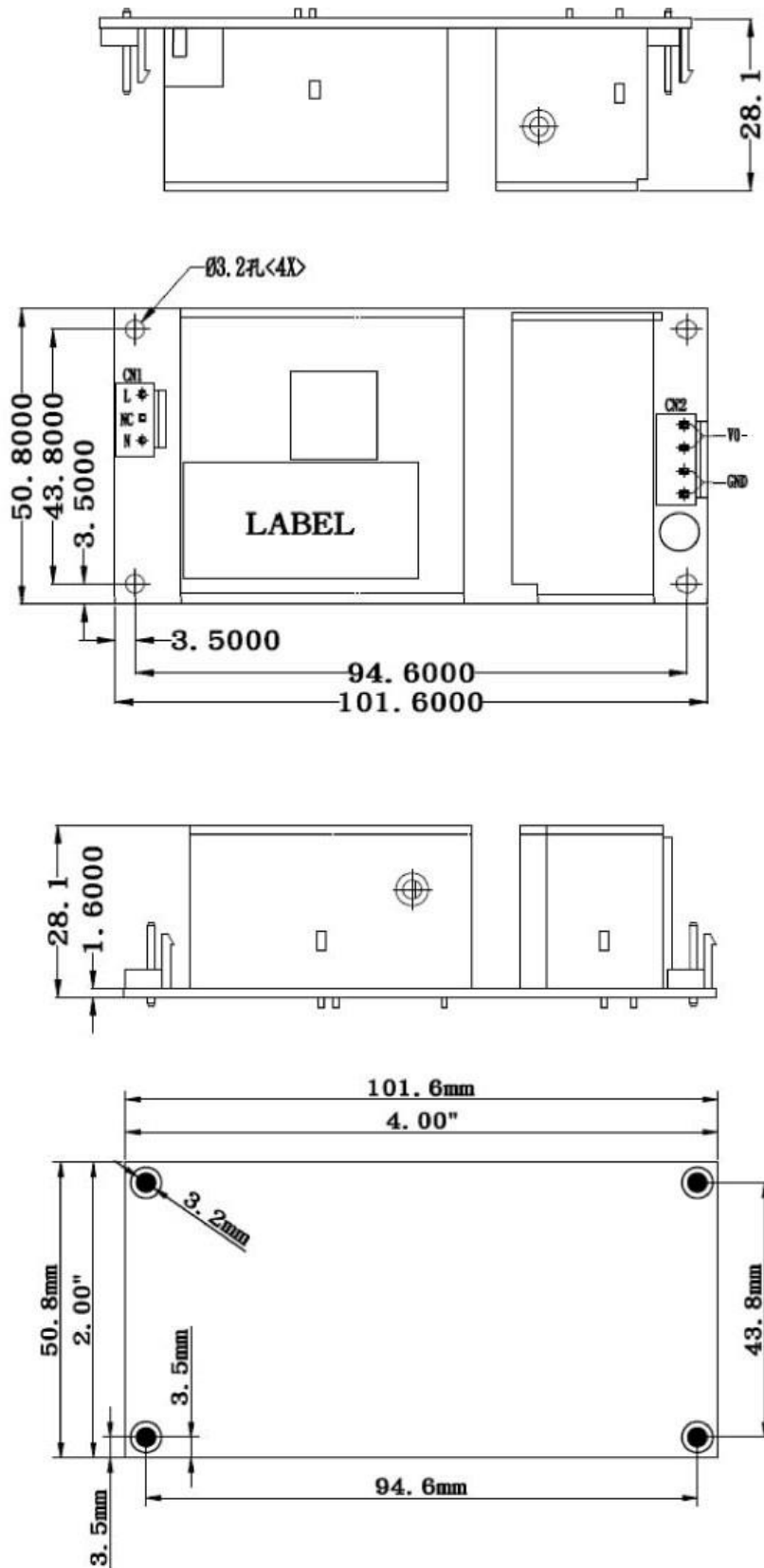
Mating Connector: JST VAR-2

**Output Connector**

GEH-OSWEGO 3961-04 equivalent to JST B4P-VH

Mating Connector: JST VHR-4N

Dimension Diagram Unit: mm





## INSTALLATION INSTRUCTION

**Manufacturer: Pihong Technology Co., Ltd**

**Models: PML065-xxxxyy (where xxx = 120, 150, 180, 190, 240 or 480; yyy = any alphanumeric character or blank for marketing use only)**

1. The switching power adapter is intended used for medical electrical equipment. There are not parts in this equipment, suitable for direct patient contact!
2. Circuit diagrams, descriptions and component parts list will be made available only upon request when servicing is required. Please, contact the address below for related information.  
Pihong USA Corp.  
47800 Fremont Blvd., Fremont, CA 94538 U.S.A.

3. The classification of the equipment is:

- Class II
- No applied parts
- Not AP or APG type
- Protection class IPX0
- Not intended for use in the presence of flammability anaesthetic mixture with air or with oxygen or nitrous oxide
- Intended for continuous operation

4. Environmental conditions:

Operation	Temperature (°C)	0 to +50°C
	Relative Humidity (%)	20 to 80%RH
	Atmospheric Pressure (kPa)	540 to 1060hPa
Storage/Transportation	Temperature (°C)	-20 to +80°C
	Relative Humidity (%)	10 to 90%RH

5. The equipment has not been evaluated according to IEC60601-1-2. The EMC assessment shall be conducted for the end system configuration.



6. Input Rating: 100-240Vac, 50-60Hz, 1.6-0.7A

Output Rating:

Model	O/P Voltage	O/P Current	Watt
PML065-120	12V	5A	60W
PML065-150	15V	4.34A	65W
PML065-180	18V	3.62A	65W
PML065-190	19V	3.43A	65W
PML065-240	24V	2.71A	65W
PML065-480	48V	1.36A	65W

7. A certified power supply cord set has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered.

The power cord set shall have a power supply cord with conductors providing a cross-sectional area of 2G, 0.75mm<sup>2</sup> minimum.

8. Any inspection and maintenance tasks must be carried out only by authorized by the manufacturer service personnel.

9. "WARNING": Do not modify this equipment without authorization of the manufacturer."



10. "Do not dispose this product in the household waste, please, follow the respective national law for proper disposal."

11. "WARNING": Do not open this equipment without authorization of the manufacturer.

12. The equipment provided with one fuse (F1) on line conductor, fuse rated T3.15AL, 250Vac, size 8.5 x 8.5 x 4 mm.