

FEATURES:

- RoHS compliant
- High efficiency up to 76%
- Low profile plastic package
- 7 pin SIP package
- Operating temperature -40°C to + 85°C
- Continuous Short circuit protection
- Pin compatible with multiple manufacturers
- Input / Output Isolation 1000 to 6000 VDC



Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency
PMH-0505SZ	4.5-5.5	5	200	1000	71
PMH-0512SZ	4.5-5.5	12	83	1000	74
PMH-0515SZ	4.5-5.5	15	67	1000	74
PMH-1205SZ	10.8-13.2	5	200	1000	72
PMH-1212SZ	10.8-13.2	12	83	1000	74
PMH-1215SZ	10.8-13.2	15	67	1000	75
PMH-2405SZ	21.6-26.4	5	200	1000	73
PMH-2412SZ	21.6-26.4	12	83	1000	75
PMH-2415SZ	21.6-26.4	15	67	1000	75
PMH-0505SH30Z	4.5-5.5	5	200	3000	71
PMH-0512SH30Z	4.5-5.5	12	83	3000	74
PMH-0515SH30Z	4.5-5.5	15	67	3000	74
PMH-1205SH30Z	10.8-13.2	5	200	3000	72
PMH-1212SH30Z	10.8-13.2	12	83	3000	74
PMH-1215SH30Z	10.8-13.2	15	67	3000	75
PMH-2405SH30Z	21.6-26.4	5	200	3000	73
PMH-2412SH30Z	21.6-26.4	12	83	3000	75
PMH-2415SH30Z	21.6-26.4	15	67	3000	75
PMH-0505SH40Z	4.5-5.5	5	200	4000	71
PMH-0512SH40Z	4.5-5.5	12	83	4000	74
PMH-0515SH40Z	4.5-5.5	15	67	4000	74
PMH-1205SH40Z	10.8-13.2	5	200	4000	72
PMH-1212SH40Z	10.8-13.2	12	83	4000	74
PMH-1215SH40Z	10.8-13.2	15	67	4000	75
PMH-2405SH40Z	21.6-26.4	5	200	4000	73
PMH-2412SH40Z	21.6-26.4	12	83	4000	75
PMH-2415SH40Z	21.6-26.4	15	67	4000	75
PMH-0505SH52Z	4.5-5.5	5	200	5200	71
PMH-0512SH52Z	4.5-5.5	12	83	5200	74
PMH-0515SH52Z	4.5-5.5	15	67	5200	74
PMH-1205SH52Z	10.8-13.2	5	200	5200	72
PMH-1212SH52Z	10.8-13.2	12	83	5200	74
PMH-1215SH52Z	10.8-13.2	15	67	5200	75
PMH-2405SH52Z	21.6-26.4	5	200	5200	73
PMH-2412SH52Z	21.6-26.4	12	83	5200	75
PMH-2415SH52Z	21.6-26.4	15	67	5200	75
PMH-0505SH60Z	4.5-5.5	5	200	6000	71
PMH-0512SH60Z	4.5-5.5	12	83	6000	74
PMH-0515SH60Z	4.5-5.5	15	67	6000	74
PMH-1205SH60Z	10.8-13.2	5	200	6000	72
PMH-1212SH60Z	10.8-13.2	12	83	6000	74
PMH-1215SH60Z	10.8-13.2	15	67	6000	75
PMH-2405SH60Z	21.6-26.4	59	200	6000	73
PMH-2412SH60Z	21.6-26.4	12	83	6000	75
PMH-2415SH60Z	21.6-26.4	15	67	6000	75

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
PMH-0505DZ	4.5-5.5	±5	±100	1000	70
PMH-0512DZ	4.5-5.5	±12	±42	1000	71
PMH-0515DZ	4.5-5.5	±15	±33	1000	71
PMH-1205DZ	10.8-13.2	±5	±100	1000	73
PMH-1212DZ	10.8-13.2	±12	±42	1000	76
PMH-1215DZ	10.8-13.2	±15	±33	1000	76
PMH-2405DZ	21.6-26.4	±5	±100	1000	72
PMH-2412DZ	21.6-26.4	±12	±42	1000	74
PMH-2415DZ	21.6-26.4	±15	±33	1000	76
PMH-0505DH30Z	4.5-5.5	±5	±100	3000	70
PMH-0512DH30Z	4.5-5.5	±12	±42	3000	71
PMH-0515DH30Z	4.5-5.5	±15	±33	3000	71
PMH-1205DH30Z	10.8-13.2	±5	±100	3000	73
PMH-1212DH30Z	10.8-13.2	±12	±42	3000	76
PMH-1215DH30Z	10.8-13.2	±15	±33	3000	76
PMH-2405DH30Z	21.6-26.4	±5	±100	3000	72
PMH-2412DH30Z	21.6-26.4	±12	±42	3000	74
PMH-2415DH30Z	21.6-26.4	±15	±33	3000	76
PMH-0505DH40Z	4.5-5.5	±5	±100	4000	70
PMH-0512DH40Z	4.5-5.5	±12	±42	4000	71
PMH-0515DH40Z	4.5-5.5	±15	±33	4000	71
PMH-1205DH40Z	10.8-13.2	±5	±100	4000	73
PMH-1212DH40Z	10.8-13.2	±12	±42	4000	76
PMH-1215DH40Z	10.8-13.2	±15	±33	4000	76
PMH-2405DH40Z	21.6-26.4	±5	±100	4000	72
PMH-2412DH40Z	21.6-26.4	±12	±42	4000	74
PMH-2415DH40Z	21.6-26.4	±15	±33	4000	76
PMH-0505DH52Z	4.5-5.5	±5	±100	5200	70
PMH-0512DH52Z	4.5-5.5	±12	±42	5200	71
PMH-0515DH52Z	4.5-5.5	±15	±33	5200	71
PMH-1205DH52Z	10.8-13.2	±5	±100	5200	73
PMH-1212DH52Z	10.8-13.2	±12	±42	5200	76
PMH-1215DH52Z	10.8-13.2	±15	±33	5200	76
PMH-2405DH52Z	21.6-26.4	±5	±100	5200	72
PMH-2412DH52Z	21.6-26.4	±12	±42	5200	74
PMH-2415DH52Z	21.6-26.4	±15	±33	5200	76
PMH-0505DH60Z	4.5-5.5	±5	±100	6000	70
PMH-0512DH60Z	4.5-5.5	±12	±42	6000	71
PMH-0515DH60Z	4.5-5.5	±15	±33	6000	71
PMH-1205DH60Z	10.8-13.2	±5	±100	6000	73
PMH-1212DH60Z	10.8-13.2	±12	±42	6000	76
PMH-1215DH60Z	10.8-13.2	±15	±33	6000	76
PMH-2405DH60Z	21.6-26.4	±5	±100	6000	72
PMH-2412DH60Z	21.6-26.4	±12	±42	6000	74
PMH-2415DH60Z	21.6-26.4	±15	±33	6000	76

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
	12	10.8-13.2		
	24	21.6-26.4		
Filter	Capacitor			
Turn on Transient process time			25	ms
Start up time		200		ms
Absolute Maximum Rating	5 Vin	0-7		VDC
	12 Vin	0-15		
	24 Vin	0-28		
Peak Input Voltage time		100		ms
Input reflected Ripple current	With 12 μ H inductance	20		mA p-p

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	3 sec	1000, 3000, 4000, 5200 & 6000		VDC
Resistance		> 1000		MOhm
Capacitance		10		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		± 3		%
Voltage balance (Dual Output model)	Balanced Load	± 1		%
Short Circuit protection		Continuous		
Short circuit restart		Auto-Recovery		
Line voltage regulation (Single)	For 1.0% of Vin	± 1.2		%
Line voltage regulation (Dual)	For 1.0% of Vin	± 1.2		%
Load voltage regulation	load 20~100%	± 10		%
Temperature coefficient		± 0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	75		mV p-p
Rising time		50		ms

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load, variable	80		KHz
Operating temperature	Full load without derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Max Case temperature			+100	°C
Cooling		Free air convection		
Humidity			95	%
Case material		Non-conductive black plastic UL 94 V-0		
Weight		2.3		g
Dimensions (L x W x H)		0.76 x 0.24 x 0.37 inch	19.50 x 6.00 x 9.50 mm	
MTBF		>1 121 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

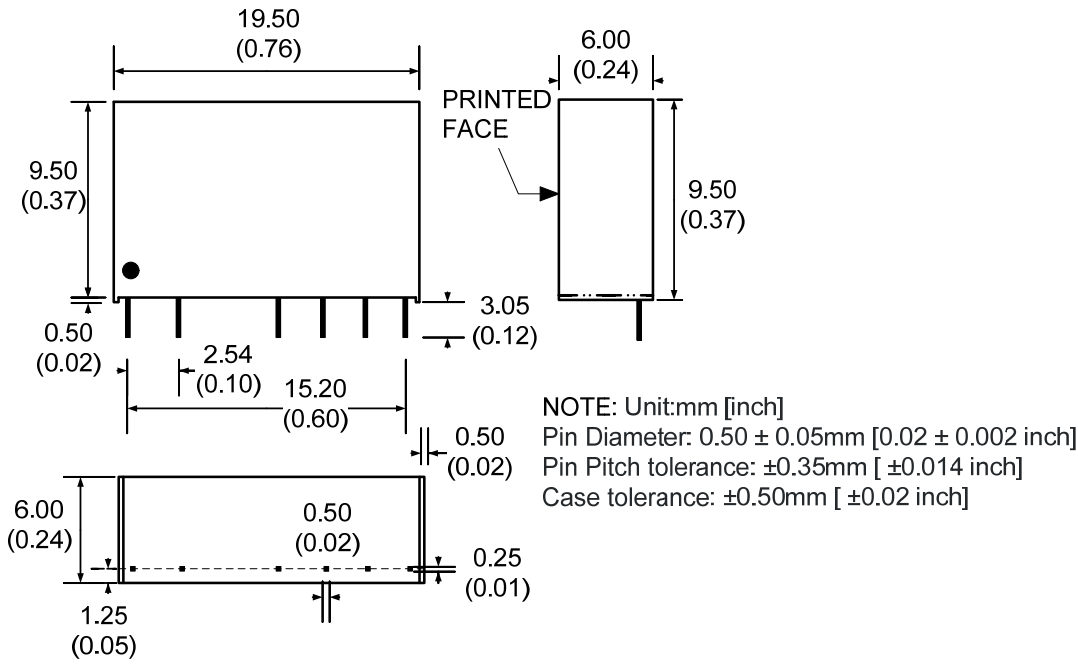
Safety Specifications

Parameters	
Safety	NOTE: designed to meet IEC 60950-1

Pin Out Specifications

Pin	Single 1000 VDC	Dual 1000 VDC	Single 3000, 4000, 5200 & 6000 VDC	Dual 3000, 4000, 5200 & 6000 VDC
1	+ V Input	+ V Input	+ V Input	+ V Input
2	- V Input	- V Input	- V Input	- V Input
4	- V Output	- V Output	No pin	No pin
5	No pin	Common	- V Output	- V Output
6	+ V Output	+ V Output	No pin	Common
7	No pin	No pin	+ V Output	+ V Output

Dimensions:



5. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet.