IMC-PWR-12-12

Industrial Grade Power Supply, 12VDC, 12W

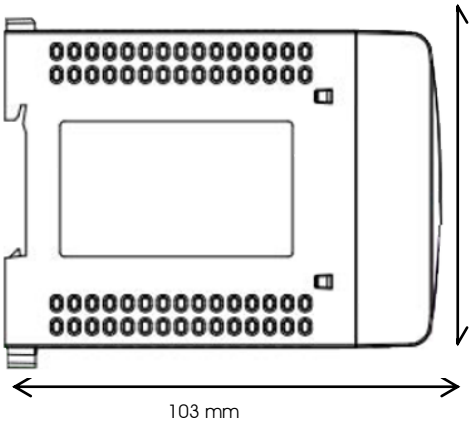
IMC-PWR-12-12 is a slim 12W Industrial grade power supply, that can be installed on TS-35/7.5 or TS-35/15 DIN-Rail mounts. It supports full range of AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

IMC-PWR-12-12 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 84%, it can operate at ambient temperature between -40°C to 70°C under air convection. It is equipped with constant current mode for over load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus makes IMC-PWR-12-12 a very competitive power supply solution for industrial applications.

Features and Benefits

- **Industrial Grade**
  Industrial grade metal housing enhances power dissipation and can be DIN-Rail mounted
- **Power**
  Provides 12W in 12VDC with power input of AC 90 to 264V, it offers high working efficiency
- **Operating in Extreme Temperate**
  Operates in a wide range of temperature between -40°C to 70°C.
- **Stable and Reliable**
  Protection against short circuit, over current, over voltage, Efficiency of 100% full load, long life and high reliability
- **Standards**
  Conforms to EN61000-3-2, EU standard for harmonic Current and EMC
- **Applications**
  Intelligent transportation, rail transit, power industry, mining, petroleum, shipping and metallurgy

CONSTRUCTION



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OUTPUT POWER PARAMETERS	
Wattage	12W
Voltage	12VDC
Current Rating	0 to 1A
Ripple and Noise	100 mVp-p
Voltage Adjustment Range	10 to 15VDC
Setup/Rise Time at Full Load	180ms at 115VAC; 96 ms at 230 VAC
Typical Hold Up Time at Full Load	20ms at 115VAC
INPUT POWER PARAMETERS	
Voltage Range	96 to 264VAC
Related Voltage Range	100 to 240VAC
Frequency Range	47 to 63Hz
Rated Frequency	50 to 60Hz
Typical Efficiency	>84.0% at 115VAV, >83.0% at 230VAC
Typical Current	0.30A at 115VAC, 0.15 A at 230VAC
Inrush Current (cold start)	60A at 230VAC, 30A at 115 VAC
OVERLOAD PROTECTION	
Over Power	14.4 to18W Swing Machine
Over Voltage	15 to16V Swing Machine
Over Current	1.2 to 1.5A Swing Machine
Protection Type	Constant current limiting, recovers automatically after fault condition is removed
ENVIRONMENTAL	
Operating Temperature (C)	-40 to +70
Storage Temperature (C)	-40 to +85
Operating Humidity	10% - 95% non condensing
MECHANICAL	
Dimensions (mm)	103 (w) x 85 (h) 23(d)
Weight (g)	310
Housing	Aluminum Die Cast
Finish	Black Power Coat, RAL 9005
Installation	DIN-Rail Mounting / Equipment Box
Libration	Frequency Range: 10 to 500Hz; Acceleration: 2G; Sweep Cycle 10min; 6 sweeps along the X, Y, and Z axis
Surge	Acceleration: 20G; Duration Time: 11mS; 3 shocks along X, Y and Z axis
Altitude	2000m

STANDARDS COMPLIANCE	
EMC	EN 55032/24, EN 61000-3-2 Class A, EN 61000-3-3
EMS	IEC61000-4-2 ESD:±8kV contact discharge,±15kV air discharge IEC61000-4-3 RS:10V/m(80~1000MHz) IEC61000-4-4 EFT: power cable:±4kV; data cable:±2kV IEC61000-4-5 Surge: power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6 Radio Frequency Transmission:10V (150kHz~80MHz) IEC61000-4-8 Power Frequency Magnetic Field:100A/m;1000A/m ,1s to 3s IEC61000-4-9 Pulsed Magnet Field:1000A/m IEC61000-4-10 Damped Oscillation:30A/m 1MHz IEC61000-4-12/18 Shockwave: CM 2.5kV,DM 1kV IEC61000-4-16 Common Mode Transmission:30V; 300V,1s
Emissions	CCC; CE FCC Part 15 Subpart B Class B EN 55022:2010 IC ICES-003 Class B IEC61000-6-2 Common Industrial Standard
Immunity	EN 55024:2010
Safety	GB 4943, EN 62368-1, EN 60950, IEC 62368-1, RoHS

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
IMC-PWR-12-12	Infinique Industrial Grade Power Supply, 12VDC, 12W, DIN-Rail Mount

infinique™ Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.