

POWER ADAPTER

For GLACIÄR MIDI



Applications

- Industrial electrical equipment
- Mechanical equipment
- Factory automation equipment
- Hand-held electronic device



GLACIÄR Power Adapter supplies the correct electrical power required. It converts the incoming mains power to the appropriate voltage and current, ensuring safe operation and protecting the device's electronics.

The power adapter features a compact design with screw terminal mounting, making it easy to integrate into a wide range of installations. It supports a universal input of 85–305 VAC and operates reliably across a wide temperature range ensuring stable performance in demanding environments. Designed for efficiency and reliability, it offers very low no-load power, built-in protections against short circuit, overload, and overvoltage.



Features

- 91x39,5 mm compact size
- Screw terminal mounting
- Universal input 85 ~ 305VAC
- No load power consumption <0.1W
- EMI Class B without additional components
- Wide operating temp. range -30 ~ +70°C
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- Over voltage category III
- Pass LPS (except for 5V)
- 3 years warranty



SIMPLY RELIABLE REFRIGERANT GAS DETECTORS



www.samon.com

Part of **safe monitoring** group

GLACIÄR POWER ADAPTER

TECHNICAL DATA



Output			
DC voltage	24V		
Rated current	1.3A		
Current range	0 ~ 1.3A		
Rated power	31.2W		
Ripple & noise (max.) Note.2	240mVp-p		
Voltage tolerance Note.3	±2.5%		
Line regulation	±0.5%		
Load regulation	±.5%		
Setup, rise time	1000ms, 30ms/230VAC 1500ms, 30ms/115VAC at full load		
Hold up time(Typ.)	40ms/230VAC 12ms/115VAC at full load		
Input			
Voltage range	85 ~ 305VAC		
Frequency range	47 ~ 440Hz		
Efficiency (Typ.)	88.5%		
AC current (Typ.)	0.75A/115VAC 0.5A/230VAC 0.375A/277VAC		
Inrush current (Typ.)	COLD START 25A/115VAC 45A/230VAC		
Leakage current	< 0.25mA/277VAC		
Protection			
Overload	105% ~ 160% rated output power		
	Protection type : Hiccup mode, recovers automatically after fault condition is removed		
Over voltage	25.2 ~ 32.4V		
	Protection type : Shut off o/p voltage, clamping by zener diode		
Environment			
Working temp.	-30 ~ +70 (Refer to "Derating Curve")		
Working humidity	20 ~ 90% RH non-condensing		
Storage temp., humidity	-40 ~ +85 , 10 ~ 95% RH		
Temp. coefficient	±0.03%/ (0 ~ 50)		
Vibration	Blank:10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes		
	ST:10 ~ 500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes		
Soldering temperature	Wave soldering: 265 ,5s (max.); Manual soldering: 390 ,3s (max.)		
Over voltage category	III; According to EN62368-1; altitude up to 2000 meters		
Operating altitude Note.4	2000 meters		
Safety & EMC (Note.5)			
Safety standards	IEC62368-1, UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, EAC TP TC 004, BSMI CNS14336-1 approved		
Withstand voltage	1/P-O/P:4KVAC		
Isolation resistance	1/P-O/P:100M Ohms / 500VDC / 25 / 70% RH		
EMC emission	Parameter	Standard	Test level / Note
	Conducted	BS EN/EN55032(CISPR32), CNS13438	Class B
	Radiated	BS EN/EN55032(CISPR32), CNS13438	Class B
	Harmonic Current (Note 5)	BS EN/EN61000-3-2	Class A
	Voltage Flicker	BS EN/EN61000-3-3	---
EMC immunity	BS EN/EN55035, BS EN/EN61000-6-2		
	Parameter	Standard	Test level / Note
	ESD	BS EN/EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact, criteria A
	Radiated Susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
	EFT/Burest	BS EN/EN61000-4-4	Level 3, criteria A
	Surge	BS EN/EN61000-4-5	Level 4, 2KV/L-N, criteria A
	Conducted	BS EN/EN61000-4-6	Level 3, criteria A
	Magnetic Field	BS EN/EN61000-4-8	Level 4, criteria A
Voltage Dips and interruptions	BS EN/EN61000-4-11	95% dip 0.5 periods, 30% dip 25 periods, 95% interruptions 250 periods	
Others			
MTBF	7713.0K hrs min. Telcordia SR-332 (Bellcore) ; 593.4K hrs min. MIL-HDBK-217F (25)		
Dimension	Screw terminal style : 91 * 39.5 * 28.5mm [L*W*H]		
Packing	Screw terminal style :0.113Kg;120pcs/14.6Kg/0.83CUFT		
Note			
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m (6500ft). 5. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" (as available on www.meanwell.com). ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			Manual * by MeanWell  Datasheet ** by MeanWell 

Supplied by MeanWell. *Manual: https://www.meanwell.com/Upload/PDF/PCB_EN.pdf **Datasheet: <https://www.meanwell.com/Upload/PDF/IRM-30/IRM-30-SPEC.PDF>