

HS30(TB Type)

MAX. Power 30W Isolated Terminal Block Type AC-DC Converter

HS30Series(TB Type) Isolated Terminal Block Type AC-DC Converter



Features

- Power Saving Mode Operation
- Small, High Efficiency
- Isolated Input - Output
- Quasi-resonant operation and Current mode Control
- Low output Ripple & Noise
- Built-in over current protection circuit
- Short Circuit Protection
- Universal Input Voltage(Free Voltage)
- Built in EMI Filter
- Safety standard (IEC, EN 60950-1)
- AC-DC Converter : CB, CE approved
- Mold Base : Meets CB, CE standard
- RoHS compatible design
- 2 years warranty

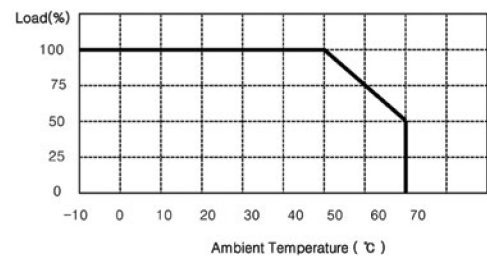
Environment

- Operating Temperature : -10°C ~ 70°C
- Operating Humidity : 20% ~ 90% RH (Non condensing)
- Storage Temperature : -20°C ~ 75°C
- Cooling : Free-Air Convection
- MTBF : 3.1×10^5 hrs

Applications

- Data and telecommunication
- Datacommunication electronic equipments
- FA control

Derating Curve



* Operating Temperature Range : From -10°C to 70°C

General Specifications

Input	Power Saving	5V, 12V, 15V, 24V : Less than 0.3W (@ Input : 230Vac, Output : No Load) 48V : Less than 0.5W (@ Input : 230Vac, Output : No Load)
	Voltage Range	AC90V ~ 264V OR DC120V ~ 370V
	Frequency	44 ~ 440Hz(50Hz, 60Hz Typ.)
	Current	0.89Amax
	Efficiency	81% ~ 88%
	Inrush Current	30Amax.(110Vac), 60Amax.(220Vac)@Cold start
	Leakage Current	0.2mAmax.(110Vac), 0.35mAmax.(220Vac)
Output	Output Voltage	5V, 12V, 15V, 24V, 48V
	Line Regulation	± 1.0%
	Load Regulation	± 1.0%
	Output Voltage Accuracy	± 2.0%
	Ripple & Noise	1%(Peak to Peak) Max.
Protection Circuit	Over Current Protection	Works at over 105% of rating and recovers automatically
	Over Voltage Protection	Works at over 105% ~ 140% of rating, re-power on to recover When the OVP triggers, the output voltage is clamped 60% ~ 80% of rating.
	Short circuit Protection	1minute, recovers automatically
Electrically Isolated	Input - Output	AC3kV, 1minute / DC500V, 100MΩ min
	Input - FRG	AC2kV, 1minute / DC500V, 100MΩ min
	Output - FRG	AC0.5kV, 1minute / DC500V, 70MΩ min

HS30 Series(TB Type) Ordering Information (Single Output)

MODEL	HS30-05TB	HS30-12TB	HS30-15TB	HS30-24TB	HS30-48TB	
Input Voltage (V)	AC90V ~ 264V, 44Hz ~ 440Hz or DC120V ~ 370V					
Power Saving	less than 0.3W (@Input : 230Vac, Output : No Load)				less than 0.5W	
Output	Vout (V)	5	12	15	24	48
	Iout (A)	6	2.5	2	1.25	0.63
Maximum Power (W)	30	30	30	30	30.24	
Ripple & Noise (mVp-p)	100	120	150	200	300	
Efficiency Typ. (220Vac) [%]	81	88	88	87	86	

Pin assignments



| Top View |

Pin No.	Single	Dual
1	AC input L	AC input L
2	AC input N	AC input N
3	FRG	FRG
4	+Vout	+Vout
5	+Vout	Com
6	-Vout	Com
7	-Vout	-Vout

Outline Dimensions : <Unit : mm (inch)>

