



■ Features :

- Half-brick size (2.28"X2.4"X0.5") with industry standard pin out
- 2:1 wide input range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- High efficiency up to 89%
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in remote sense function
- Trimming output $\pm 10\%$
- Five-sided shield metal case
- Optional heat sinks for extended operating temperature
- Output 3.3V/15V available
- Approvals: UL / CUL / EAC / CE / UKCA
- 3 years warranty

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



SPECIFICATION

MODEL		MHB75-12S05	MHB75-12S12	MHB75-12S24	MHB75-24S05	MHB75-24S12	MHB75-24S24	MHB75-48S05	MHB75-48S12	MHB75-48S24	
OUTPUT	DC VOLTAGE	5V	12V	24V	5V	12V	24V	5V	12V	24V	
	CURRENT RANGE	0 ~ 15A	0 ~ 6.25A	0 ~ 3.13A	0 ~ 15A	0 ~ 6.25A	0 ~ 3.13A	0 ~ 15A	0 ~ 6.25A	0 ~ 3.13A	
	RATED POWER	75W									
	RIPPLE & NOISE (max.) Note.2	75mVp-p	100mVp-p	240mVp-p	75mVp-p	100mVp-p	240mVp-p	75mVp-p	100mVp-p	240mVp-p	
	VOLTAGE ACCURACY Note.3	$\pm 1.0\%$									
	LINE REGULATION	$\pm 0.2\%$									
	LOAD REGULATION	$\pm 0.2\%$									
	SWITCHING FREQUENCY (Typ.)	400KHz for 12/24Vin, 300KHz for 48Vin									
	EXTERNAL TRIM ADJ. RANGE (Typ.)	$\pm 10\%$									
EXTERNAL CAPACITIVE LOAD (max.)	10000uF	10000uF	2000uF	10000uF	10000uF	2000uF	10000uF	10000uF	2000uF		
INPUT	RATED DC INPUT	12VDC			24VDC			48VDC			
	VOLTAGE RANGE	9 ~ 18VDC			18 ~ 36VDC			36 ~ 75VDC			
	SURGE VOLTAGE (100ms max.)	25VDC			50VDC			100VDC			
	UNDER VOLTAGE LOCKOUT	Power up: 8.8VDC, Power down: 8VDC			Power up: 17VDC, Power down: 16VDC			Power up: 34VDC, Power down: 32.5VDC			
	EFFICIENCY (Typ.)	83%	87%	87%	84%	88%	88%	84%	89%	89%	
	DC CURRENT	FULL LOAD	7570mA	7200mA	7200mA	3780mA	3650mA	3650mA	1900mA	1800mA	1800mA
		NO LOAD	50mA			50mA			50mA		
FILTER	Pi-network										
PROTECTION	OUTPUT OVER CURRENT	110 ~ 150% rated output power Protection type : Over current limiting, recovers automatically after fault condition is removed									
	OUTPUT OVER VOLTAGE (Typ.)	115 ~ 140% rated output voltage Protection type : Output voltage clamp by TVS diode									
	OUTPUT SHORT CIRCUIT	Protection type : Can be continuous, recovers automatically after fault condition is removed									
	OVER TEMPERATURE	100°C $\pm 5^\circ\text{C}$ of case temperature									
FUNCTION OPERATING	REMOTE CONTROL	Please refer to "Remote ON/OFF Control" for details									
	OUTPUT TRIMMING	$\pm 10\%$, Please refer to "External Output Trimming" for details									
ENVIRONMENT	WORKING TEMPERATURE (Typ.)	-40 ~ +100°C ; Thermal shutdown at 100°C $\pm 5^\circ\text{C}$ of case temperature (please refer to "Thermal Curve")									
	WORKING HUMIDITY	0% ~ 95% RH max.									
	STORAGE TEMP., HUMIDITY	-55 ~ +105°C, 0 ~ 95% RH									
	TEMP. COEFFICIENT	$\pm 0.03\%/^\circ\text{C}$ (0~60°C)									
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, EAC TP TC 020/2011(EAC TP TC 004 for 48Vin type only) approved									
	ISOLATION VOLTAGE	I/P-O/P:1500VDC, I/P-Case:1500VDC, O/P-Case:1500VDC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class A with external components (please refer to "EMC Suggestion Circuit"), EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8; BS EN/EN55024, light industry level, criteria A, EAC TP TC 020									
OTHERS	CASE MATERIAL	Aluminum									
	MTBF	1000K hrs typ. MIL-HDBK-217F (25°C)									
	DIMENSION	57.9*61*12.7mm (2.28"*2.40"*0.5") (L*W*H)									
	WEIGHT	92g									
NOTE	<p>1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 1uf ceramic & 10uf tantalum capacitor across output.</p> <p>3. The power supply need to connect "+Vout" to "+R.S" and "-Vout" to "-R.S".</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>										