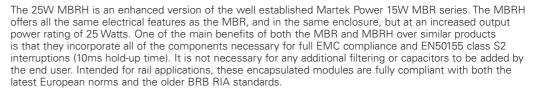




Description



Special features include:

- · Single and dual output versions
- Rugged encapsulated construction
- Requires no external filter components or capacitors for hold-up
- Equally suitable for PCB or bulkhead mounting (choice of cables connections or PCB pins)

Input specifications

The following input voltages versions are available as standard:

110V	(66.0	-	137.5V)	dc	(Suffix A)
72V	(43.2	-	90.0V)	dc	(Suffix D)
52V	(31.2	-	65.0V)	dc	(Suffix C)
36V	(21.0	-	50.4V)	dc	(Suffix F)
24V	(16.8	-	33.6V)	dc	(Suffix B)
230V	(185.0	-	265V)	ac	(Suffix Z)

Parameter Detail

Input Ripple	To RIA 13 and EN50155
Input Protection	Reverse polarity protection. Surges and transients to RIA 12 & EN50155
Inrush Current	Limited to typically 5 x nominal current (after 0.1ms)
Efficiency	80% typical
Hold-up time	10ms to EN50155 Class S2

Output specifications

Parameter	Detail	
Maximum Output Power	25W (20W for 5Vdc output version)	
Output Versions	Single and Dual. Dual output models are +/- with common zero	
Output Voltage	Can be specified from 5V to 48V	
Setting Tolerance	±1.0% at 50% load, 15°C to 25°C	



Output specifications (Continued)

Parameter	Detail		
Minimum Load	Typically zero for all outputs, although in some cases a minimum load of up to 5% on U1 for full performance.		
Line Regulation	±0.2%		
Load Regulation	±0.5%		
Temperature Coefficient	<0.02% / °C		
Output Ripple	<1% Pk-Pk of Output Voltage		
Output Noise	<50mV Pk-Pk superimposed (up to 20MHz)		
Response Time	1.0ms to within 2% (for a 20% - 90% load chang	ge)	
Output Protection	Outputs protected against indirect transients to RIA 12		
Current Limit	Operates at approximately 120% of full power. Auto recovery.		
Isolation (tested at dc	Input to Output	1.0kV ac	
equivalent voltage)	Output to Output	None	

Environmental details

Parameter	Detail
Operating Temperature	-25°C to +65°C (no derating)
Storage Temperature	-40°C to +85°C
Cooling	Convection
Relative Humidity	99% max.
Shock & Vibration	EN 50155 (EN 61373)
Environmental Protection	IP65

Applicable norms

Parameter	Detail
EMC	RIA 12, EN50155 (2017), EN50121-3-2 (2016)
Other	EN50155 (2017), EN45545-2

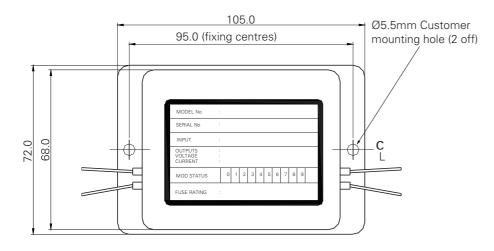
Mechanical characteristics

Parameter	Detail
Construction	Encapsulated Module
Dimensions	Length = 84 mm (mounting flange increases length to 105 mm) Width = 72 mm Height = 32 mm
Weight	300g
Connections	Solder pins for PCB mounting as standard Option for input / output cables (halogen free cable)
Fixings	Two ø 5mm clear holes mounting flange

Options for MBRH series

Option	Detail	Code
Connections	Input / output cables 350mm	Ω7
Connections	Input / output cables 600mm	Q8
Connections	Input cables 1000mm Output cables 300mm	Q12
DIN rail mounting plate	Drawing 900-931	D

Technical drawing



Notes:

All dimensions in mm.

Case: Moulded in flame retardant ABS to UL94 V-0. All leadouts are 0.6mm² (19/0.2mm) halogen free cable Length from outside of the potted box is 350mm ±10mm unterminated.

Cable marker code (as per label):

A: -Ve IN

B: +Ve IN

C: -Ve OUT D: +Ve OUT

