

Energy Labelling and MEPS program

Regulatory Ruling

Ruling Number: 017

Revision A

Revision Date 08/09/2008

This ruling has been prepared on behalf of all regulators for energy labelling and MEPS for electrical appliances in Australia and New Zealand. This ruling represents an agreed interpretation of the relevant regulations. This interpretation shall be recognised in all Australian and New Zealand jurisdictions.

Product Type: External Power Supplies
Relevant Standard AS/NZS 4665.1 : 2005
Relevant Clause/s Appendix A
Relevant Standard AS/NZS 4665.2 : 2005
Relevant Clause/s 3, 3.1, 3.11, 3.12, 3.21, 3.22, 4.21, 4.22
Initial Date of Draft Ruling: 08/09/2008
Date of Standard Amendment TBA

	NSW	QLD	SA	VIC	NZ
Accepted By	T Aldrich	V Thompson	R Anderson	M Grubert	T Collins
Date Accepted	18/09/2008	23/09/2008	24/09/2008	18/09/2008	18/09/2008

Subject

Registration and marking of performance mark V external power supplies

Ruling:

A.c. – d.c. external power supplies

A single output external power supply may be marked “V”, in lieu of III or IV, only if both its no-load power consumption and average active mode efficiency, measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c., meets the levels specified for an Energy Performance Mark V in Table 1 and Table 2.

A.c. – a.c. external power supplies

A single output external power supply may be designated ‘high efficiency V’ only if the average active mode efficiency, measured in accordance with AS/NZS 4665.1:2005, at 230 V a.c., meets the level specified for an Energy Performance Mark V in Table 1.

The failure to meet any performance validation criteria of any one of the models included in a family of models in a registration, is indicative that all models within the family registration fail the performance criteria.”

Table 1

ENERGY EFFICIENCY PERFORMANCE REQUIREMENTS FOR NUMERAL V

Output specifications	Active mode efficiency requirements	
	Nameplate output power (P_{no}) (W)	Average active mode efficiency expressed as a decimal
Output voltage < 6 Volts and Output current \geq 0.550 Amps	0 to 1	$\geq 0.497 \times P_{no} + 0.067$
	>1 to 49	$\geq 0.0750 \times L_n(P_{no}) + 0.561$
	>49 to 250	≥ 0.860
All other models	0 to 1	$\geq 0.480 \times P_{no} + 0.140$
	>1 to 49	$\geq 0.0626 \times L_n(P_{no}) + 0.622$
	>49 to 250	≥ 0.870

Table 2

NO-LOAD POWER CONSUMPTION REQUIREMENTS FOR NUMERAL V

Nameplate output power (P_{no})	No-load power consumption requirements	
	AC – AC	AC - DC
	(W)	(W)
0 to < 50	Not applicable	≤ 0.3
≥ 50 to 250	Not applicable	≤ 0.5

Performance marking is mandatory.

Note to be added as detailed above