

EPA ENERGY STAR Verification Testing Initiative: External Power Supplies, 2009 Final Results

Background: 21 Models tested from 13 partners

Table 1. Reason for failure (efficiency and/or labeling) by model

Partner	Model	Unit	Actual Mark	Mark as per testing outcome	Ultimate reason for failure (efficiency and/or labeling)
Asian Power Devices	DA-24D12	1	IV	V	Never marked V. Delisted.
		2	IV	V	
Delta Electronics	ADP-5FH	1	IV	V	Never marked V, but intended to meet V. Differences in testing setup/methodology observed. Delisted.
		2	IV	IV	
Elpac Electronics	FW3012	1	None	I	Old design not intended to meet V. Was redesigned in August 2008, hence not delisted.
		2	None	I	
Elpac Electronics	FW3018	1	V	IV	Possible differences in testing setup/methodology. Investigating. Delisted.
		2	V	IV	
Elpac Electronics	FWB100012A	1	IV	IV	Old design. Has not been updated; awaiting word on whether this has been sold marked V. Delisted.
		2	IV	IV	
Elpac Electronics	MWA150024	1	IV	V	Partner committed to change labeling to V, hence not delisted.
		2	IV	V	
Jentec Technology	AF0605B	1	IV	V	Never marked V. Delisted.
		2	IV	V	
Jentec Technology	AF1805-A	1	IV	V	Never marked V. Delisted.
		2	IV	V	
Kuantech (Shen Zhen) Co. Ltd.	KA12A120050034U	1	None	II	Not intended to meet V. Kuantech agreed to not sell this model as qualified until it upgraded its design. Delisted.
		2	None	II	
Leader Electronics	MT20-21120-A00F	1	IV	N/A	Old units (2007), one unit appeared used and experienced electrical failure. Proof received units now marked V, hence not delisted.
		2	IV	V	
Leader Electronics	MU12-2075100-A1	1	IV (115)	IV	Appears to have been intended to meet V except at 115V. Leader asked that we delist this model. Delisted.
		2	IV (115)	IV	
Lite-On	PA-1121-04	1	None	N/A	Was never qualified. Selected for testing in error.

		2	None	III	
Mean Well Enterprises	AS-120P-12	1	None	II	Not intended to meet V. After model was first qualified, it had to be redesigned to meet customer's application. This resulted in failure to qualify, and Mean Well removing the Roman numeral but forgetting to delist it. Delisted.
		2	None	II	
Mean Well Enterprises	GS60 Series (GS60A18 selected)	1	IV	V	Model marked V since September 2009, hence not delisted.
		2	IV	V	
Phihong USA Co	PSAA05A-050-R	1	IV	V	Marked IV because old. Currently marked V, hence not delisted.
		2	IV	V	
Phihong USA Co	PSC60W-240-R	1	IV	V	Marked IV because old. Currently marked V, hence not delisted.
		2	IV	V	
Power Systems Technologies	FMP5202C	1	IV	N/A	Old units, model never marked V. Delisted.
		2	IV	N/A	
Sunny Computer Technology	SYS1319-3012-T2	1	IV	IV	Marked IV, met IV. Sometimes made to V and marked V, hence not delisted.
		2	IV	IV	
Ten Pao Electronics	ATADS10JBE	1	IV	IV	Units tested made by another manufacturer, but bear same model number. Hence, not delisted.
		2	IV	IV	

Table 2. Models that *did not* meet level V, grouped by cause of failure.

Intended to meet level V?	Partner	Model	Reason/Explanation
No	Sunny Computer Technology	SYS1319-3012-T2	Multiple levels produced: Partner produces the same model number at different levels) Old: Units tested were manufactured before November 1, 2008 Other: Appears to have been intended to meet V <i>except at 115V.</i> Other: After model was first qualified, it had to be redesigned to meet customer's application. This resulted in failure to qualify, and Mean Well removing the Roman numeral but forgetting to delist it.
	Elpac Electronics	FW3012	
	Elpac Electronics	FWB100012A	
	Kuantech (Shen Zhen) Co. Ltd.	KA12A120050034U	
	Power Systems Technologies	FMP5202C	
	Leader Electronics	MU12-2075100-A1	
Yes	Delta Electronics	ADP-5FH	Testing differences Old: Unit that failed appeared used and was old.
	Elpac Electronics	FW3018	
	Leader Electronics	MT20-21120-A00F	
Unknown	Ten Pao Electronics	ATADS10JBE	Other: Units tested made by another manufacturer, but bear same model number.
	Lite-On	PA-1121-04	Other: Was never qualified. Selected for testing in error.

Table 3. Models that failed to meet the United States federal standard (level IV)

Partner	Model
Elpac Electronics	FW3012
Kuantech (Shen Zhen) Co. Ltd.	KA12A120050034U
Lite-On	PA-1121-04
Mean Well Enterprises	AS-120P-12

Table 4. End-Use Product Labeling Problems

Partner	EPS Model	Actual mark	Mark as per testing outcome	EUP model the EPS shipped with	EUP sold as "Powered by an ENERGY STAR qualified adapter?"	EUP in iSTAR?	Problem
Jentec Technology	AF0605B	IV	V	D-Link DGS-2205	Yes	Yes	EPS should be marked V.
Jentec Technology	AF1805-A	IV	V	Trendnet TV-IP110W	Mark on packaging was ENERGY STAR certification mark, without the required, "Powered by an ENERGY STAR qualified adapter."	Yes	EPS should be marked V. EUP packaging mislabeled.
Leader Electronics	MU12-2075100-A1	IV (115)	IV	Trendnet TE100-S55Eplus	No	Yes	EUP should not be in iSTAR if it does not ship with a qualified EPS.