Product Change Notification

Ref.: PCN/2401011
Date: January 01, 2024
Total pages: 2

PRODUCT PART NUMBERS AFFECTED

1. PEM1203	2. PEM1205	3. PEM1212
4. PEM1303	5. PEM1305	6. PEM1312

DETAILS OF THE CHANGE OF PRODUCT

Infomart is hereby announcing the product change and upgrade notification for the above listed product part numbers. The change is effective immediately.

The reason for the change is non-availability of certain input components which makes long term manufacturing unreliable and unviable. At the same time the new versions

The above referenced models are fully deprecated and End Of Life. We request users to test and accept the new versions with improved part numbers listed below.

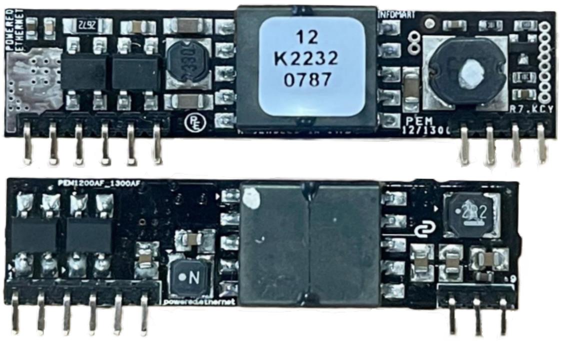
Due to improvements in EMI. we recommend that customers conduct their EMI testing prior to using the versions in mass production.

REVISED PART NUMBERS

Old Part Numbers		Revised Part Numbers		
PEM1200 series	PEM1203	PEM1200AF series	PEM1203AF	PEM1203AFD
	PEM1205		PEM1205AF	PEM1205AFD
	PEM1212		PEM1212AF	PEM1212AFD
			PEM1224AF	PEM1224AFD
PEM1300 series	PEM1303	PEM1300AF series	PEM1303AF	PEM1303AFD
	PEM1305		PEM1305AF	PEM1305AFD
	PEM1312		PEM1312AF	PEM1312AFD
			PEM1324AF	PEM1324AFD

Representative image

PEM1300



PEM1300AF

DIFFERENCE IN PERFORMANCE AND FEATURES

- The PEM1200AF/AFD and PEM1300AF/AFD models are a functional drop-in replacement of the PEM1200 and PEM1300 models.
- The PEM1200AF/AFD and PEM1300AF/AFD models are smaller in size, with improved efficiency and EMI.
- The AFD model includes an optional frequency dithering circuit which further improves EMI performance.
- New 24V output module introduced.

Infomart® (India) Pvt. Ltd.
Infomart Tech Park
99, 5th Cross, 5th Block, Koramangala, Bangalore – 560 095, India
Tel : +91 (80) 4111-7200 www.infomartgroup.com CIN: U72900KA1993PTC014558

The revised models (PEM1200AF or AFD / PEM1300AF or AFD) offer the following:

- Increased DC-DC efficiency.
- AFD model with frequency dithering for improved EMI performance.
- Full output power of 12.95W on all voltage models (subject to thermal derating)
- Smaller size (14mm x 52mm vs 14mm x 56mm)
- PCB thickness reduced to 1mm and High Temperature laminate used

Comparison matrix of old and revised Parts:

Parameters		PEM1200/PEM1300		PEM1200AF/PEM1300AF		PEM1200AFD/PEM1300AFD	
Max Output Power*		12.95W except 3.3V models		12.95W all models		12.95W all models	
Dimensions (LxHxW) mm		56 X 14 X 17.30		52 X 14 X 17.30		52 X 14 X 17.30	
Frequency Dithering		×		×		✓	
Efficiency (%)	Output Voltage	PEM1200	PEM1300	PEM1200AF	PEM1300AF	PEM1200AFD	PEM1300AFD
	3.3V	80	79	83	80	83	80
	5V	82	81	86	83	86	83
	12V	86	84	88	85	88	85
	24V	×	×	89	86	89	86

* Subject to thermal derating as per datasheet

COMPARISON OF PIN CONFIGURATION:

The new versions PEM1200AF and PEM1300AF modules retain the same pin to pin functionality with the EOL models with six pins on the input side, but have eliminated the older non-connected pin 10 on the output.

	Pin	PEM1200	PEM1200AF/AFD	PEM1300	PEM1300AF/AFD
Input Pins	1	**VIN+** internally connected to pin 3	**VINA1** internally connected to pin 3	**VINA** Not polarity sensitive.	**VINA1** Not polarity sensitive.
	2	**VIN-** internally connected to pin 4	**VINA2** internally connected to pin 4	**VINA** Not polarity sensitive.	**VINA2** Not polarity sensitive.
	3	**VIN+** internally connected to pin 1	**VINB1** internally connected to pin 1	**VINB** Not polarity sensitive.	**VINB1** Not polarity sensitive.
	4	**VIN-** internally connected to pin 2	**VINB2** internally connected to pin 2	**VINB** Not polarity sensitive.	**VINB2** Not polarity sensitive.
	5	**CP1.** For IEEE power Class programming	**CP1** For IEEE power Class programming	**CP1.** For IEEE power Class programming	**CP1** For IEEE power Class programming
	6	**CP2.** For IEEE power Class programming	**CP2** For IEEE power Class programming	**CP2.** For IEEE power Class programming	**CP2** For IEEE power Class programming
Output Pins	7	**-VDC**. Output negative	**-VDC**. Output negative	**-VDC**. Output negative	**-VDC**. Output negative
	8	**+VDC.** Output positive	**+VDC.** Output positive	**+VDC.** Output positive	**+VDC.** Output positive
	9	**OADJ.** For Output Voltage adjustment	**OADJ.** For Output Voltage adjustment	**OADJ.** For Output Voltage adjustment	**OADJ.** For Output Voltage adjustment
	10	**NC** Do not connect	×	**NC** Do not connect	×

Enclosure:

1. **Data Sheet of revised parts, PEM1200AF and PEM1300AF**

Approved by:	
Name: Devesh Agarwal	**Position: Managing Director and President**

Infomart® (India) Pvt. Ltd.
Infomart Tech Park
99, 5th Cross, 5th Block, Koramangala, Bangalore – 560 095, India
Tel : +91 (80) 4111-7200 www.infomartgroup.com CIN: U72900KA1993PTC014558