

August 1, 2025

Information Note

Change of tracer gas of gas-impregnated power capacitors to helium

Due to the EU directive, the following gas-impregnated power capacitors will be filled with a new inert and environmentally friendly tracer gas. The tracer gas is used to detect leaks during routine factory tests.

Affected series

- PhaseCap Energy Plus Gas
- PhaseCap Energy HD Gas
- PoleCap Gas
- PhiCap EHD Gas

The affected capacitor series contain a small amount of SF₆ (sulfur hexafluoride, < 500 ppm). Considering the various current and expected regulations, in particular REGULATION (EU) 2024/573 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7th February 2024 on fluorinated greenhouse gases, amending Directive (EU) 2019/1937 and repealing Regulation (EU) No 517/2014, and following TDK's corporate framework on environment, SF₆ gas will be replaced by an inert and environmentally friendly tracer gas (Helium, He) for leak testing in factory. Helium is lighter and smaller than SF₆ and is therefore considered more effective for leak detection.

For more details, please refer to PCN.

There will be no changes in dimensions, data sheet parameters, terminal and terminations, packing, or ordering codes. Based on simulation and FMEA, it is established that the change (of tracer gas) will not have any detrimental effect on the performance, reliability, and safety of the products.

Scheduled date of introduction for all shipments from our Nashik factory:
December 15, 2025.

Scheduled date of first deliveries of changed products: Typically 2 weeks ex factory Nashik:
January 1, 2026

TDK Electronics AG

Rosenheimer Strasse 141 e, 81671 Munich · Post: P.O.Box 80 17 09, 81617 Munich, Germany
Headquarters: Munich · Commercial register of the local court (Amtsgericht): Munich HRB 127250
Chairman of the Supervisory Board: Joachim Zichlarz
Management Board: Dr. Werner Lohwasser, Chairman · Juergen Holzinger
www.tdk-electronics.tdk.com

CAP
Power Capacitors
Internal / External

250801CAP1e

August 1, 2025

Detailed list of affected PhaseCap Energy capacitors

Ordering code	B25674C4102Z480	B25674C4252J080	B25674C5202Z025
B25674C2052J030	B25674C4112J080	B25674C4252Z000	B25674C5252J025
B25674C2052Z030	B25674C4122J040	B25674C4252Z015	B25674C5252Z025
B25674C2072J530	B25674C4122J500	B25674C4252Z040	B25674C5262J525
B25674C2072Z530	B25674C4122J515	B25674C4252Z080	B25674C5282J125
B25674C2102J030	B25674C4122J540	B25674C4282C140	B25674C5302J025
B25674C2102Z030	B25674C4122J580	B25674C4282J100	B25674C5302Z025
B25674C2102Z430	B25674C4122Z500	B25674C4282J115	B25674C5332J125
B25674C2122J530	B25674C4122Z515	B25674C4282J140	B25674C6052J300
B25674C2122Z530	B25674C4122Z540	B25674C4282J180	B25674C6052J390
B25674C2152J030	B25674C4122Z580	B25674C4282Z140	B25674C6062J200
B25674C4052J000	B25674C4132J880	B25674C4302J000	B25674C6062J290
B25674C4052J015	B25674C4142J240	B25674C4302J015	B25674C6062J900
B25674C4052J040	B25674C4142Z240	B25674C4302J040	B25674C6062J990
B25674C4052J080	B25674C4152J000	B25674C4302J080	B25674C6082J300
B25674C4052Z040	B25674C4152J015	B25674C4302Z040	B25674C6082J390
B25674C4062J040	B25674C4152J040	B25674C4302Z080	B25674C6102J400
B25674C4062J300	B25674C4152J080	B25674C4312J080	B25674C6102J490
B25674C4062J315	B25674C4152Z040	B25674C4332C080	B25674C6102Z490
B25674C4062J340	B25674C4152Z080	B25674C4332J000	B25674C6122J500
B25674C4062J380	B25674C4162J700	B25674C4332J015	B25674C6122J590
B25674C4072J040	B25674C4162J715	B25674C4332J080	B25674C6122Z590
B25674C4072J500	B25674C4162J740	B25674C4332J140	B25674C6132J900
B25674C4072J515	B25674C4162J780	B25674C4332Z080	B25674C6132J990
B25674C4072J540	B25674C4162Z740	B25674C4332Z140	B25674C6142J600
B25674C4072J580	B25674C4162Z780	B25674C5052J025	B25674C6142J690
B25674C4072Z540	B25674C4182J840	B25674C5062J325	B25674C6162J700
B25674C4082J040	B25674C4182Z840	B25674C5072J525	B25674C6162J790
B25674C4082J300	B25674C4202J000	B25674C5082J325	B25674C6202J000
B25674C4082J315	B25674C4202J015	B25674C5082Z325	B25674C6202J090
B25674C4082J340	B25674C4202J040	B25674C5102J425	B25674C6202J800
B25674C4082J380	B25674C4202J080	B25674C5102Z425	B25674C6202J890
B25674C4082Z380	B25674C4202J880	B25674C5122J525	B25674C6202Z890
B25674C4092J040	B25674C4202Z000	B25674C5122Z525	B25674C6252J000
B25674C4102J040	B25674C4202Z015	B25674C5132J225	B25674C6252J090
B25674C4102J400	B25674C4202Z040	B25674C5152J025	B25674C6252Z090
B25674C4102J415	B25674C4202Z080	B25674C5152Z025	B25674C6282J000
B25674C4102J440	B25674C4222J080	B25674C5162J725	B25674C6282J090
B25674C4102J480	B25674C4252J000	B25674C5162Z725	B25674C6302J000
B25674C4102Z415	B25674C4252J015	B25674C5202J025	B25674C6302J090
B25674C4102Z440	B25674C4252J040	B25674C5202J825	B25674L4052J015

August 1, 2025

B25674L4052J040	B25674L4122J515	B25674L4252J080	B25674L5162J725
B25674L4052J080	B25674L4122J540	B25674L4282J115	B25674L5202J025
B25674L4062J040	B25674L4122J580	B25674L4282J140	B25674L5202J825
B25674L4062J315	B25674L4132J880	B25674L4282J180	B25674L5252J025
B25674L4062J340	B25674L4142J240	B25674L4302J015	B25674L5262J525
B25674L4062J380	B25674L4152J015	B25674L4302J040	B25674L5332J125
B25674L4072J040	B25674L4152J040	B25674L4312J080	B25674L6052J390
B25674L4072J515	B25674L4152J080	B25674L4332J015	B25674L6102J490
B25674L4072J540	B25674L4162J715	B25674L4332J080	B25674L6122J590
B25674L4072J580	B25674L4162J780	B25674L4332J140	B25674L6142J690
B25674L4082J040	B25674L4182J840	B25674L5052J025	B25674L6202J090
B25674L4082J315	B25674L4202J015	B25674L5062J325	B25674L6252J090
B25674L4082J380	B25674L4202J040	B25674L5072J525	B25674L6282J090
B25674L4102J040	B25674L4202J080	B25674L5082J325	B25674S4332J080
B25674L4102J415	B25674L4202J880	B25674L5102J425	B25674X4252J040
B25674L4102J440	B25674L4222J080	B25674L5122J525	
B25674L4102J480	B25674L4252J015	B25674L5132J225	
B25674L4112J080	B25674L4252J040	B25674L5152J025	

Detailed list of affected PoleCap capacitors

Ordering code	B25671A4207A375	B25671A5247A375	B25671L4347A385
B25671A3147A375	B25671A4237A365	B25671A5287A375	B25671L4417A345
B25671A3207A375	B25671A4247A375	B25671A5347A375	B25671L4417A365
B25671A3247A375	B25671A4307A375	B25671A5726A375	B25671L4447A385
B25671A3297A375	B25671A4347A375	B25671A5966A375	B25671L4656A375
B25671A3417A375	B25671A4417A375	B25671L4137A375	B25671L4826A385
B25671A3497A375	B25671A4467A375	B25671L4167A395	B25671R4012A080
B25671A3996A375	B25671A4467A385	B25671L4197A345	B25671R4032A080
B25671A4002A540	B25671A4826A375	B25671L4197A355	B25671S4012A080
B25671A4012A000	B25671A4926A375	B25671L4197A395	B25671S4032A080
B25671A4012A040	B25671A5002A520	B25671L4217A375	B25671U4012P040
B25671A4022A040	B25671A5022A020	B25671L4247A355	B25671U4022P040
B25671A4032A000	B25671A5032A020	B25671L4247A385	B25671U4032P040
B25671A4032A040	B25671A5042A020	B25671L4247A395	B25671U4042P040
B25671A4042A000	B25671A5052A020	B25671L4267A375	B25671U4052P040
B25671A4042A040	B25671A5127A375	B25671L4307A385	B25671U4082P040
B25671A4127A375	B25671A5147A375	B25671L4307A395	B25671U4102P040
B25671A4177A375	B25671A5177A375	B25671L4337A345	
B25671A4187A375	B25671A5197A375	B25671L4337A365	

August 1, 2025

Detailed list of affected PhiCap EHD capacitors

Ordering code	B32474G4122A580	B32474G4252A015	B32474G5082A325
B32474G4072A515	B32474G4122E515	B32474G4252A040	B32474G5082E325
B32474G4072A540	B32474G4122E540	B32474G4252A080	B32474G5102A425
B32474G4072E515	B32474G4122E580	B32474G4252E015	B32474G5102E425
B32474G4072E540	B32474G4122K540	B32474G4252E040	B32474G5102K425
B32474G4072K540	B32474G4122K580	B32474G4252E080	B32474G5122A525
B32474G4072K580	B32474G4132A880	B32474G4252K040	B32474G5122E525
B32474G4082A015	B32474G4132E880	B32474G4252K080	B32474G5122K525
B32474G4082A340	B32474G4152A015	B32474G4272A780	B32474G5132A225
B32474G4082A380	B32474G4152A040	B32474G4272E780	B32474G5132E225
B32474G4082E015	B32474G4152A080	B32474G4272K780	B32474G5132K225
B32474G4082E340	B32474G4152E015	B32474G4282A140	B32474G5152A025
B32474G4082E380	B32474G4152E040	B32474G4282A180	B32474G5152E025
B32474G4082K340	B32474G4152E080	B32474G4282E140	B32474G5152K025
B32474G4082K380	B32474G4152K040	B32474G4282E180	B32474G5162A725
B32474G4092A015	B32474G4152K080	B32474G4302A040	B32474G5162E725
B32474G4092A040	B32474G4162A780	B32474G4302A080	B32474G5162K725
B32474G4092E015	B32474G4162E780	B32474G4302E040	B32474G5202A025
B32474G4092E040	B32474G4162K780	B32474G4302E080	B32474G5202E025
B32474G4102A015	B32474G4182A780	B32474G4302K040	B32474G5202K025
B32474G4102A040	B32474G4182E780	B32474G4302K080	B32474G5252A025
B32474G4102A480	B32474G4202A015	B32474G4302L080	B32474G5252E025
B32474G4102E015	B32474G4202A040	B32474G4312A080	B32474G5252K025
B32474G4102E040	B32474G4202A080	B32474G4312E080	B32474G5262A525
B32474G4102E480	B32474G4202E015	B32474G5062A325	B32474G5262E525
B32474G4102K040	B32474G4202E040	B32474G5062A625	B32474G5302A025
B32474G4102K480	B32474G4202E080	B32474G5062E325	B32474G5302E025
B32474G4112A180	B32474G4202K040	B32474G5062E625	B32474G5302K025
B32474G4112E180	B32474G4202K080	B32474G5062K625	B32474G5332A125
B32474G4112K180	B32474G4222A080	B32474G5072A525	B32474G5332E125
B32474G4122A515	B32474G4222E080	B32474G5072E525	B32474G5332K125
B32474G4122A540	B32474G4222K080	B32474G5072K525	

Enclosure IN (ID No. FILM 25.015)

Contact Thomas Toelg, CAP Film ES PFC PM, Munich

Customers are asked to address inquiries directly to their sales contacts.

Information Note

1. ID No. FILM 25.015		2. Date of announcement August 1, 2025	
3. Product / product group PhaseCap Energy Plus Gas, PhaseCap Energy HD Gas, PoleCap Gas, PhiCap EHD Gas	Old ordering code see UPtoDATE	New ordering code no change	Customer part number n/a
4. Description of change Change in tracer gas used for detection of leak during routine factory testing. The affected capacitor series have a small quantity of SF₆ (Sulphur Hexafluoride), limited to 500 ppm as tracer gas to facilitate leak detection. Considering the various present and expected regulations, more specifically REGULATION (EU) 2024/573 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7th February 2024 on fluorinated greenhouse gases, amending Directive (EU) 2019/1937 and repealing Regulation (EU) No 517/2014 and aligned to TDK's corporate framework on environment, the SF₆ gas will be replaced by an inert and environmentally friendly tracer gas (Helium, He) for leak testing in factory.			
5. Effect on the product or for the customer (benefit, quality, specification, lead time) No change in dimensions, data sheet parameters, terminal / terminations, packing or ordering codes. Benefits include product without SF₆ and better aligned to environmental regulations. Customers are advised to refer the mentioned regulation and other relevant / applicable regulations and laws and take necessary precautions related to purchase, storage, installation, maintenance and disposal of capacitors containing SF₆. This advance intimation to customer is to facilitate necessary actions from their end.			
6. Quality assurance measures / risk assessment Although the aforementioned regulation apparently only applies to electrical switchgear, capacitors are also included as a precautionary measure. Unlike switchgear, capacitors contain only very small amounts of SF₆ (less than 500 ppm), are static devices, and have a smaller sealing area. Since they are operated at near atmospheric pressure, much lower than switchgear, the probability of SF₆ escaping from capacitors is very low. Given the very small quantities involved, this does not pose a risk. Unlike switchgear, SF₆ is not required in capacitors for their function, in particular for insulation or switching purposes, but is only used for routine tests and has no further use after the capacitors have been delivered. However, the change will be implemented in accordance with the regulation.			
7. Scheduled date of change For all shipments from our Nashik factory: December 15, 2025.			
8. Estimated date of first delivery of changed product Typically 2 weeks ex factory Nashik: January 1, 2026 ☐ For an interim period we cannot rule out that old as well as new products will be shipped. ☐ Future shipments can consist of old and new products as the new changed product is used as an alternative to the old product.			
Quality Management Name Anja Kalmes		Signature Signed Kalmes	
Product Marketing Name Thomas Tölg EMail thomas.toelg@tdk.com Tel. +49 15172671755		Signature Signed Toelg	
Customers are asked to address inquiries directly to their sales contacts.			