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KEY PARTNERS



Product Brochure



YIDEK TECH

Zhejiang Yidek Technology Co., Ltd.

COMPANY PROFILE



2007

Founded in



78

Patents and
Software Copyrights



100+

MillionCNY

Registered Capital



40000+

m²

Factory area

YIDEK - Your Power Quality Expert. We specialize in reactive power compensation, harmonic filtering, and voltage optimization, delivering a full range of solutions from smart capacitors to Static Var Generators (SVG) and Active Power Filters (APF). Backed by 66 patents, 12 software copyrights, and certifications including CE, ISO9001, and CCC, we provide reliable, high-efficiency power management for industrial, commercial, and renewable energy applications. Choose YIDEK for stable power and optimized performance.

PRODUCT PORTFOLIO

YIDEK products cover:

- **Low Voltage Solutions:** Power Capacitors、Series Reactors & Line Reactors、Capacitor Switching Devices、Reactive Power Compensation Controllers、Smart Integrated Capacitor Modules、Active Power Filters (APF)、Static Var Generators (SVG)、Dynamic Voltage Regulators
- **High Voltage Solutions:** High-voltage capacitor compensation systems Cascaded high-voltage SVG systems



SUPERIORITY Core Advantages

- Strong R&D Collaboration
- Robust Talent Structure
- Extensive Intellectual Property
- Leading Technology Innovation
- Reliable Product Quality

We hold a wide range of authoritative domestic and international certifications including EU ECM and CNAS accreditation, with our test reports recognized under global mutual recognition arrangements.



PRODUCT INDEX

Low Voltage Compensation Component Series



Power Capacitors P1~2



Series Reactors P3~4



Capacitor Switching Devices P5~6



Intelligent Reactive Power Compensation Controller P7~8

Intelligent Power Module Series



Intelligent Power Capacitor P9~10



Anti-harmonic Intelligent Power Capacitor P11~12



Static Var Generators (SVG) P13~14



Active Power Filters (APF) P15~16

High & Low Voltage Power Quality Management Complete Set Series



Capacitor, APF/SVG Cabinet P17~18



New Power Quality Management Device P19~22



High-Voltage Shunt Capacitor Installation P23~24



High Voltage SVG P25~26

Monitoring & Metering



Power Meters P27~28

Power Capacitor

Suitable for forming tuning filter capacitors and harmonic filters, for power factor correction and harmonic filtering.



PRODUCT FEATURES

ELECTRIC	MACHINERY&MAINTAINING	SAFETY	ENVIRONMENT
Service life(≥180,000 hours) Withstand high surge current(300IR) Non corona discharge	Installation cost low Easily installat&connection Low weight No maintaining	Self healing High protective terminal Proven technology Discharge resistance	Dry-type design No oil leakage



TECHNICAL PARAMETER

According to IEC60831, EN60831, UL810, GB 12747

Over-Voltage	Vmax	Ue+10% Can last up to 8 hours every day.	
		Ue+15% Can last up to 30 minutes every day.	
		Ue+20% Can last up to 5 minutes every day.	
		Ue+30% Can last up to 1 minute every day.	
Over-Current	I _{max}	1.8 I _e	
Surge Current	I _S	300 I _e	
Loss			
Dielectric		< 0.2 W/kvar Total < 0.45 W/kvar	
Rated Frequency	F	50/60 Hz	
Capacity Deviation		-5% / +10%	
Withstand Volt(Terminals)	VTT	2.15 VR1, AC, 10s	
Withstand Volt(Terminal&Case)	VTC	Ue≤660V, 3000VAC, 10s; Ue> 660V, 6000VAC, 10s	
Average Service Life		Up to 180,000h(TEMP degree-40/C); Up to 130,000h(TEMP degree-40/D)	
Environment Temperature		-40/D, max TEMP 55°C; max daily average TEMP 45°C; max annual TEMP 35°C; min -40°C	
Cooling		Natural cooling&Fan cooling	
Humidity		≤95%	
Altitude		≤2000 meters	
Installation&Grounding		Bolted	
Safety		Dry-type Technology, self healing, max fault current 10,000A, satisfy UL810	
Discharge module		Built-in discharge resistance	
Dielectric Material		Polypropylene Film	
Protective Case		Stamping aluminum cans	
Sealed Package		IP20, indoor; equipping with special case can be used outdoor	

*Subject to actual supply goods.

ORDER SPECIFICATION

Please choose suitable capacitors according to reactive power compensation solution.
Pay more attention to following parameters: rated voltage, rated capacity, three-phase or single phase...

Three-Phase Capacitor(Rated Voltage 480V AC 50Hz)

MODEL	Rated Voltage	Rated Capacity	Rated Current	Rated Capacitance
YD-R 480S05	480 V	5kvar	6.0 A	3×23.0 μF
YD-R 480S10	480 V	10kvar	12.0 A	3×46.1 μF
YD-R 480S15	480 V	15kvar	18.0 A	3×69.1 μF
YD-R 480S20	480 V	20kvar	24.1 A	3×92.1 μF
YD-R 480S25	480 V	25kvar	30.1 A	3×115.1 μF
YD-R 480S30	480 V	30kvar	36.1 A	3×138.2 μF
YD-R 480S40	480 V	40kvar	48.1 A	3×184.2 μF

*Can work with 7% electric reactor.

Three-Phase Capacitor(Rated Voltage 525V AC 50Hz)

MODEL	Rated Voltage	Rated Capacity	Rated Current	Rated Capacitance
YD-R 525S05	525 V	5kvar	5.5 A	3×19.2 μF
YD-R 525S10	525 V	10kvar	11.0 A	3×38.5 μF
YD-R 525S15	525 V	15kvar	16.5 A	3×57.7 μF
YD-R 525S20	525 V	20kvar	22.0 A	3×77.0 μF
YD-R 525S25	525 V	25kvar	27.5 A	3×96.2 μF
YD-R 525S30	525 V	30kvar	33.0 A	3×115.5 μF
YD-R 525S40	525 V	40kvar	44.0 A	3×154.0 μF

*Can work with 14% electric reactor.

Single-Phase Capacitor(Rated Voltage 280V AC 50Hz)

MODEL	Rated Voltage	Rated Capacity	Rated Current	Rated Capacitance
YD-R 280F05	280 V	5kvar	17.9 A	203 μF
YD-R 280F10	280 V	10kvar	35.7 A	406 μF
YD-R 280F15	280 V	15kvar	53.6 A	609 μF
YD-R 280F15	280 V	20kvar	71.4 A	812 μF

*Can work with 7% electric reactor.

Single-Phase Capacitor(Rated Voltage 300V AC 50Hz)

MODEL	Rated Voltage	Rated Capacity	Rated Current	Rated Capacitance
YD-R 300F05	300 V	5kvar	16.7 A	177 μF
YD-R 300F10	300 V	10kvar	33.3 A	354 μF
YD-R 300F15	300 V	15kvar	50.0 A	531 μF
YD-R 300F20	300 V	20kvar	66.7 A	707 μF

*Can work with 14% electric reactor.

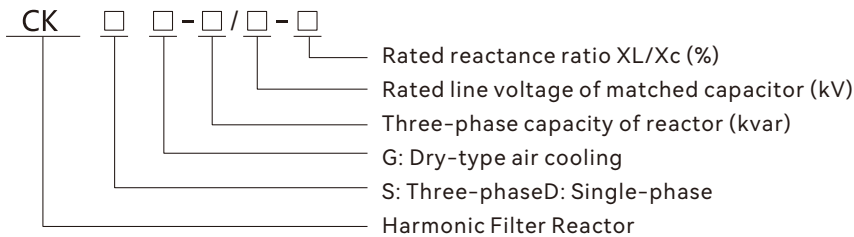
TIPS: Please ask YIDEK for more capacitor models.

Series Reactors

Reduce capacitor surge and limit influence of harmonic on capacitors and power system



MODEL SPECIFICATION

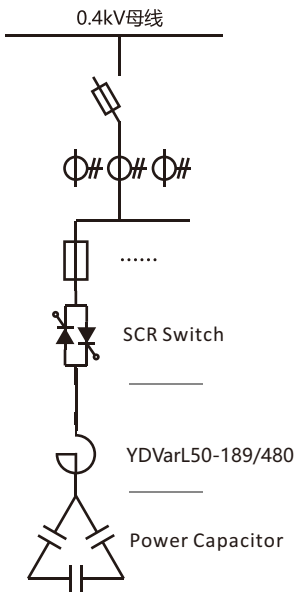


TECHNICAL PARAMETER

Harmonic filter electric reactor, according to EN61558, VDE0532, EN60289, GB/T10229

Harmonic	V3 = 0.5% VR Load power factor=100% V5 = 6.0% VR Load power factor=100% V7 = 5.0% VR Load power factor=100% V11 = 3.5% VR Load power factor=100% V13 = 3.0% VR Load power factor=100%
Virtual Current	$I_{rms} = \sqrt{(I_1^2 + I_3^2 + \dots + I_n^2)}$
Fundamental Current	I1=1.06 IR
TEMP Protection	Mini switch, normal close connect position.
Frequency	50Hz or 60Hz
Voltage	400, 440, 480, 525V
Output Power	5~100kvar
Tuning Coefficient	7%, 14%
Cooling Mode	Natural cooling
Working TEMP	40 °C
Protection Degree	I
Sealed Package	IP00

*Subject to actual supply goods.



ORDER SPECIFICATION

Please choose suitable reactors according to reactive power compensation solution. Pay more attention to following parameters: rated voltage, rated capacity, three-phase or single phase, matched capacitor technical parameters...

Three-Phase Electric Reactor(System voltage 400V, reactance 7%)

MODEL	REACTANCE	TUNING FREQUENCY	INDUCTANCE	MATCHED CAPACITOR
CKSG-1.05/0.48-7	7%	189Hz	3.4225 mH	15kvar 480V/50Hz
CKSG-1.4/0.48-7	7%	189Hz	2.5669 mH	20kvar 480V/50Hz
CKSG-1.75/0.48-7	7%	189Hz	2.0535 mH	25kvar 480V/50Hz
CKSG-2.1/0.48-7	7%	189Hz	1.7112 mH	30kvar 480V/50Hz
CKSG-2.8/0.48-7	7%	189Hz	1.2834 mH	40kvar 480V/50Hz
CKSG-3.5/0.48-7	7%	189Hz	1.0267 mH	50kvar 480V/50Hz
CKSG-4.2/0.48-7	7%	189Hz	0.8556 mH	60kvar 480V/50Hz

*Reactance rate 7%, resist 5th order and more than 5th order harmonics.

Three-Phase Electric Reactor(System voltage 400V, reactance 14%)

MODEL	REACTANCE	TUNING FREQUENCY	INDUCTANCE	MATCHED CAPACITOR
CKSG-2.1/0.525-14	14%	134Hz	8.1885 mH	15kvar 525V/50Hz
CKSG-2.8/0.525-14	14%	134Hz	6.1414 mH	20kvar 525V/50Hz
CKSG-3.5/0.525-14	14%	134Hz	4.9131 mH	25kvar 525V/50Hz
CKSG-4.2/0.525-14	14%	134Hz	4.0943 mH	30kvar 525V/50Hz
CKSG-5.6/0.525-14	14%	134Hz	3.0707 mH	40kvar 525V/50Hz
CKSG-7.0/0.525-14	14%	134Hz	2.4566 mH	50kvar 525V/50Hz
CKSG-8.4/0.525-14	14%	134Hz	2.0471 mH	60kvar 525V/50Hz

*Reactance rate 14%, resist 3rd order and more than 3rd order harmonics.

Single-Phase Electric Reactor(System voltage 400/ $\sqrt{3}$ V)

MODEL	REACTANCE	TUNING FREQUENCY	INDUCTANCE	MATCHED CAPACITOR
CKDG-0.35/0.25-7	7%	189Hz	3.4938 mH	5kvar 280V/50Hz
CKDG-0.7/0.25-7	7%	189Hz	1.7469 mH	10kvar 280V/50Hz
CKDG-1.05/0.25-7	7%	189Hz	1.1646 mH	15kvar 280V/50Hz
CKDG-1.4/0.25-7	7%	189Hz	0.8734 mH	20kvar 280V/50Hz
CKDG-0.7/0.3-14	14%	134Hz	4.0107 mH	5kvar 300V/50Hz
CKDG-1.4/0.3-14	14%	134Hz	2.0054 mH	10kvar 300V/50Hz
CKDG-2.1/0.3-14	14%	134Hz	1.3369 mH	15kvar 300V/50Hz
CKDG-2.8/0.3-14	14%	134Hz	1.0027 mH	20kvar 300V/50Hz

*According to harmonics situation, select suitable reactance rate electric reactor.

TIPS: Please ask YIDEK for more capacitor models.

Capacitor Switching Devices

Capacitor switching devices are designed for fast and reliable switching of capacitor banks, ensuring stable reactive power compensation under various operating conditions.

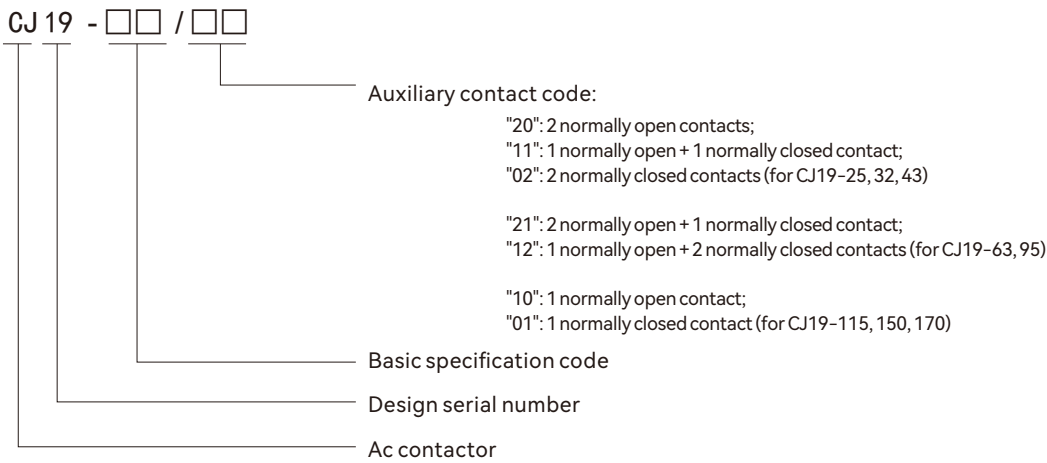


TECHNICAL PARAMETER

Specifications		CJ19	CJ19	CJ19	CJ19	CJ19	CJ19	CJ19	CJ19
Project		-25	-32	-43	-63	-95	-115	-150	-170
Controllable capacitor capacity Qe kvar	230V	6	9	10	15	22	34.5	46	52
	400V	12	18	20	30	40	60	80	90
Rated isolation voltage UiV		690							
Rated operating voltage Ue V		380					400		
Agreed free air heating current Ith A		25	32	43	63	95	200		
Rated working current IeA		17	26	29	46	63	87	115	130
Ability to restrain inrush current		≤20Ie							
Control power supply voltage UsV		48、110、127、230、400							
Auxiliary Contact	Agreed heating current Ith A	10							
	Rated operating voltage Ue V	AC380V DC220V							
	Rated control capacity	360VA (AC-15) or 33W (DC-13)							
Operating frequency times/hour		120							
Electrical life is 104 times		10					2		
Mechanical life 104 times		100							
Weight Kg		0.42	0.49	0.50	1.35	1.5	2.5		

*Subject to actual supply goods.

ORDER SPECIFICATION



TIPS: Please ask YIDEK for more capacitor models.



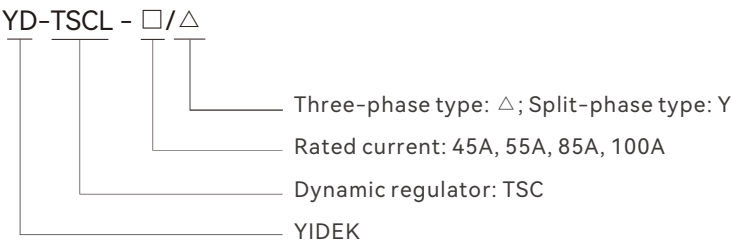
CJ19 Series Capacitor Switching Contactor

TECHNICAL PARAMETER

Voltage: 400V 690V
Output rating: 2~50kvar
Trigger signal:10~24VDC, internal insulation
Switching time:Less than 20ms
Control characteristics: Switching capacitor branch at zero crossing without inrush current.

ORDER SPECIFICATION

*Subject to actual supply goods.



MODEL	MAX CAPACITY	RATED VOLT	CONTROL MODE
YD-TSCL-45/△	25kvar	400V	3-Phase Com
YD-TSCL-60/△	30kvar	400V	3-Phase Com
YD-TSCL-85/△	40kvar	400V	3-Phase Com
YD-TSCL-85/△	50kvar	400V	3-Phase Com
YD-TSCL-45/Y	10kvar×3	400V	3-Phase Com
YD-TSCL-45/Y	15kvar×3	400V	3-Phase Com
YD-TSCL-45/Y	20kvar×3	400V	3-Phase Com
YD-TSCG-60/△	40kvar	690V	3-Phase Com
YD-TSCG-100/△	50kvar	690V	3-Phase Com
YD-TSCG-100/△	60kvar	690V	3-Phase Com

TIPS: Please ask YIDEK for more capacitor models.

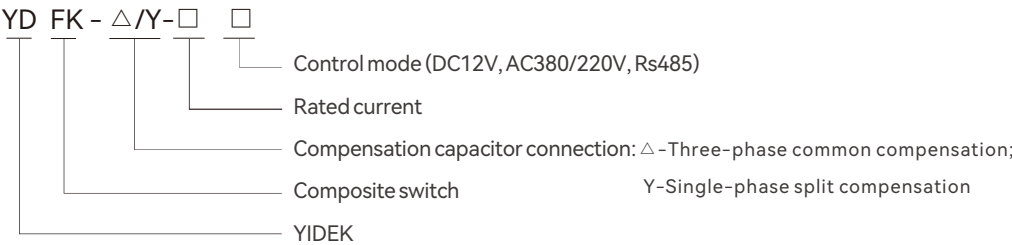


YD-TSCL Series Low Voltage Dynamic Switching Switch

TECHNICAL PARAMETER

Rated operating voltage: AC380V/AC220V **Contact voltage drop:** ≤100mV
Controllable capacitor capacity: Three-phase ≤50kvar, △-connection;
Single-phase ≤15kvar, Y-connection
Withstand voltage of switch: ≥2500V
Response time: ≤100ms
Switching time: <20ms
Rated current: 100A/60A/45A
Zero-crossing switching, no inrush current
*Subject to actual supply goods.

ORDER SPECIFICATION



Compensation mode	Model	Rated current (A)	Capacitor capacity (kvar)
Three-phase complementary	YDFK-△-100	100A	50 and below
	YDFK-△-60	60A	30 and below
	YDFK-△-45	45A	20 and below
Single-phase compensation	YDFK-Y-100	100A	50 and below
	YDFK-Y-60	60A	30 and below
	YDFK-Y-45	45A	20 and below

TIPS: Please ask YIDEK for more capacitor models.



YDFK Series Intelligent Composite Switch

Intelligent Reactive Power Compensation Controller

Provide solution for automatic switching of reactive power compensation system.



PRODUCT FEATURES

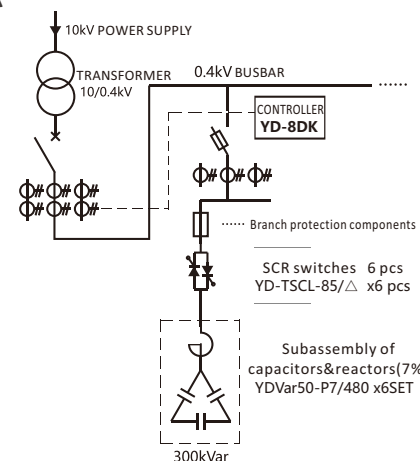
DISPLAY	EXTENDED FUNCTION	OUTPUT	ALARM OUTPUT	Communication
LCD display Diagram&Word Intelligent control self-optimizing control Button start Auto initialization Record data callback Alarm output	System volt Active&Reactive power Frequency THDu&THDi Real-time power factor Power factor aim Reactive vacancy Temperature	3-Phase compensation Split compensation Dynamic PF control (SCR control signal)	Under-Compensation Over-Compensation Under-Current Over-Current Over-Temperature Harmonic Out-of-Limit Self-checking fault	RS485 Terminal Modbus Protocol

TECHNICAL PARAMETER



YD-8DK Series

- *Rated work voltage: 230/400V
- *Rated frequency: 50/60Hz
- *Power dissipation: <3VA
- *Environment TEMP: -20°C~60°C
- *Altitude: ≤2500 meters
- *IP degree: IP30, panel IP40
- *Standard: JBT9663
- *Display: LCD display with image
- *Control output: relay or SCR
- *Alarm/Signal output: 1 delay output
- *Communication: RS485, Modbus Protocol



*Subject to actual supply goods.

ORDER SPECIFICATION

MODEL	SPECIFICATION
YD-8DKLS-24	Dynamic, DC12V/AC 220V control, 24 circuits, 3-phase compensation
YD-8DKLF-24	Dynamic, DC12V /AC 220V control, 24 circuits, mixed compensation

TIPS: Please ask YIDEK for more models.



YD-9CK-100 Series

ORDER SPECIFICATION

This kind power factor controller only can be used with YD series intelligent capacitors

MODEL	SPECIFICATION
YD-9CKZ	≤30 sets of three-phase intelligent capacitors
YD-9CKH	≤10 sets of split intelligent capacitors, Total number ≤30 sets

TIPS: Please ask YIDEK for more .

TECHNICAL PARAMETER

Measurement Accuracy

Voltage	±0.5%
Current	±1%
Power Factor	±1.5%
Reactive Power	±2%
Temperature	±1°C

Power Supply

Rated Volt	400V±20% Can be customized
Power Loss	≤3W

Communication Mode

Control	RS485 Communication, work with intelligent capacitor
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Environment Condition

Relative Humidity	20%~90% No Condensation
Environment TEMP	-25°C~70°C
Altitude	≤2000m
Others	Installation place not allow explosive media. Surrounding medium should not contain gases and conductive media that corrode metals or damage insulation. It is not allowed to be filled with water vapor and severe molds appear. Installation place shall have facilities to protect against rain, snow, wind, sand and ash.

*Subject to actual supply goods.

More Recommendations➡

For Capacitor Contactor Switch



JKW5C Series

For Capacitor Thyristor Switch



YD-8DK Series

For Hybrid Switching (Composite Type)



9CK-EC Series
JKW(D/F)-RS Series

For Intelligent Power Capacitor



9CK-EC Series
YD-9CK Series

TIPS: Please ask YIDEK for more .

Intelligent Power Capacitor

It enables automatic zero-crossing switching, intelligent control, and fault protection, featuring compact size, low power consumption, and convenient installation and maintenance.



PRODUCT FEATURES

MODULAR	HIGH QUALITY	SWITCH MODULE	PROTECT DESIGN	H&M INTERFACE
Compact structure, easy wiring, convenient maintain, individually or in parallel using, easy extend total capacity	Self-Healing type low voltage power capacitor	Intelligent capacitor built-in on/off switch. Zore-off technology No surge No over-voltage Quick response time	Power-off protection Short circuit protection Phase-lack protection Over-TEMP protection THDu protection Over-volt protection Under-volt protection Under-cur protection Ensure stable and safe operation of capacitor	Display operating parameters. Display situation of capacitor, switch and communication. Convenient for selection of switching different working modes.

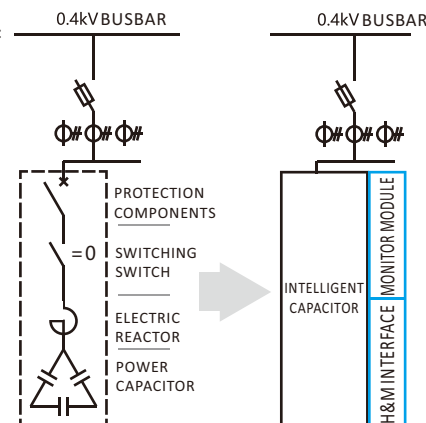


YD-DP Series Intelligent Power Capacitor

CAPACITOR COMPONENTS

Capacitor adopts integrated design, consisting of following parts:

- *Power Capacitor
- *Reactor
- *On/Off Switch
- *Protection Components
- *Monitor Module
- *Human-Machine Interface



PRODUCT APPLICATION

- *Integrated reactive compensation of distribution system
- *Local power factor correction of motors
- *Save energy system
- *Construction, traffic, factory, government, medical and other industries

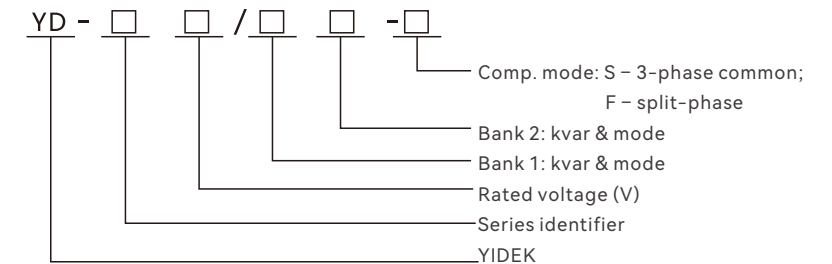


YD-8C Series Intelligent Power Capacitor

ORDER SPECIFICATION



YD-868 Series Intelligent Power Capacitor



Compensation Mode	Capacity (kvar)	Rated Voltage (V)	Capacitor Combination (kvar)	Height H (mm)
Three-phase common compensation	50	450	25+25	320
	40	450	20+20	280
	30	450	20+10	280
	20	450	10+10	240
Split-phase compensation	15	450	10+5	195
	30	250		280
	20	250		240
	10	250		195
Dual split-phase compensation	30	250	20+10	280
	20	250	10+10	240
	10	250	5+5	195

TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

Specification	3-phase common split-phase Dual split-phase	Capacity: 50/40/30/20/15 kvar; Combination: 25+25, 20+20, 20+10, 10+10, 10+5 Capacity: 30/20/10 kvar; Rated voltage AC 250V Capacity: 30/20/10 kvar; Combination: 20+10, 10+10, 5+5
Power Supply Conditions	Rated voltage Input range Frequency	Common: AC450V; Split / dual: AC250V AC380V±20% 50Hz±2.5Hz
Core Functions & Protection	Altitude Rel. humidity Composition Zero-crossing	≤2000m ≤50% at +40°C; condensation allowed at low temp. Control unit, zero-crossing switch, protection unit, capacitor Reduces inrush current, extends switch life
Networking & Control Parameters	Protection Comm. address Max units Delay	Overvoltage, undervoltage, overtemperature, undercurrent; harmonic (reserved) Split: 1-25; Common: 26-63 ≤20 台 ON: 2-250S (default 15S); OFF: 2-250S (default 30S)
Environment & Applicable Standards	PF threshold Temp. range Temp. protection	ON: 0.80-0.96 (default 0.95); OFF: 0.80-0.99 (default 0.99) -25°C ~ +55°C 20°C~80°C adjustable (default 65°C)
HMI & Commissioning	Standard Mode Indicators Config	GB/T 15576 Manual / Auto / Simulate Switching, communication, fault, alarm, master/slave status Voltage, temp., threshold, etc.; saved after power-off

*Subject to actual supply goods.

Anti-harmonic Intelligent Power Capacitor

With automatic zero-crossing switching, intelligent control, and fault protection, it offers compact size, low power consumption, and convenient installation and maintenance.



ORDER SPECIFICATION

YD X □ □ - □ □ / □ - □

Requirement classification: Blank – normal
1–9, A–Z, special requirements
Rated voltage (V): Blank – factory default
Custom voltage
2nd bank capacity (kvar)
1st bank capacity (kvar)
Reactor rate (%): For 3rd & above harmonics: 14%
For 5th & above harmonics: 7%
Compensation mode: S – common, F – split
Anti-harmonic
YIDEK

TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

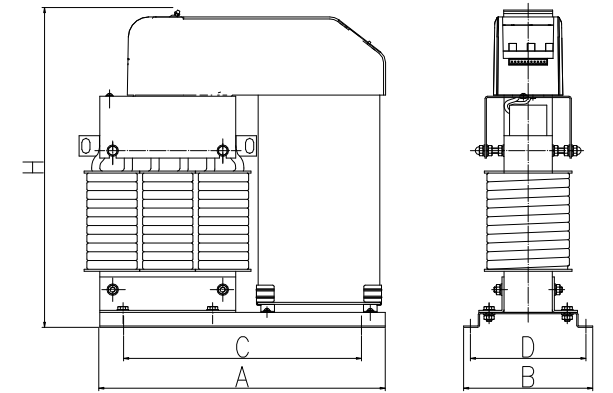
Basic Specs	Compensation mode	Common (S), split (F), mixed
	Capacity series	5kvar, 10kvar, 15kvar, 20kvar, 30kvar, 40kvar, 50kvar
	Rated voltage	Standard 480V for 0.4kV grid
	Reactor rate	7%, 14%
Electrical Parameters	Application scenario	7%: for 5th & above harmonic environment; 14%: for 3rd & above harmonic environment
	Input voltage	AC380V±20%
	Frequency	50Hz±2.5Hz
	Operating temp.	-25°C ~ +55°C
	Relative humidity	≤50% at +40°C; moderate condensation allowed at low temp.
	Altitude	≤2000m
Core Hardware	Standard	GB/T 15576
	Components	Control unit, zero-crossing switch, protection unit, tuning reactor, low-voltage filter capacitor
	Switching	Zero-crossing
	Control mode	Auto / manual
Wiring Specs	Monitoring	Device temp., switching status, communication status, fault / alarm
	Hardware version	V3.0 anti-harmonic dedicated
	Primary wiring	10mm² stranded copper wire
	Primary wiring	16mm² stranded copper wire
	Control circuit	Voltage: 1.5mm² stranded copper; Current: 2.5mm² stranded copper
	Grounding	2.5mm² copper wire
Communication	Communication	Dedicated plug-in data cable (provided)

*Subject to actual supply goods.



YDX Series
Anti-harmonic
Intelligent
Power Capacitor

OUTLINE DIMENSION



Dimensions of Anti-harmonic Capacitor with **7%** Reactor Rate (mm)

Spec	5kvar		10kvar		15kvar		20kvar		30kvar		40kvar		50kvar	
	Common	Split	Common	Split	Common	Split	Common	Split	Common	Split	Common	Split	Common	Split
H	370						420				470			
A Overall	390										420			
B	160										190			
C Mounting	310										350			
D	140										170			

Dimensions of Anti-harmonic Capacitor with **14%** Reactor Rate (mm)

Spec Mode	5kvar		10kvar		15kvar		20kvar		30kvar		40kvar		50kvar	
	Common	Split	Common	Split	Common	Split	Common	Split	Common	Split	Common	Split	Common	Split
H	370						420		470					
A Overall	390								420		445			
B	160								190					
C Mounting	310								350					
D	140								170					

*Subject to actual supply goods.

More Recommendations➡



YDX-GS Series
Dual Circuit
Anti-harmonic
Intelligent Capacitor



YDX-TSC Series
Dynamic
Anti-harmonic
Intelligent
Power Capacitor



YDX-GD Series
Anti-harmonic
Intelligent
Power Capacitor



YDX-EX Series
Anti-harmonic
Intelligent
Power Capacitor

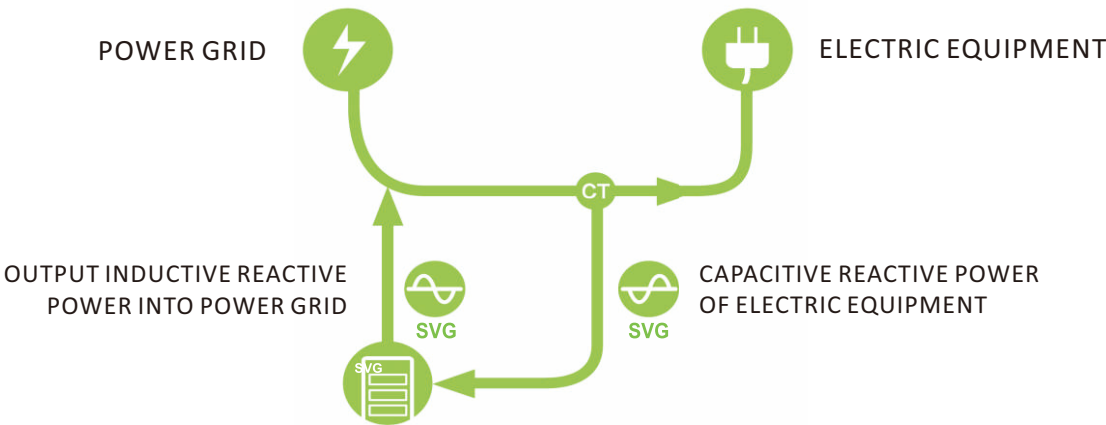
TIPS: Please ask YIDEK for more models.

SVG (Static Var Generator)

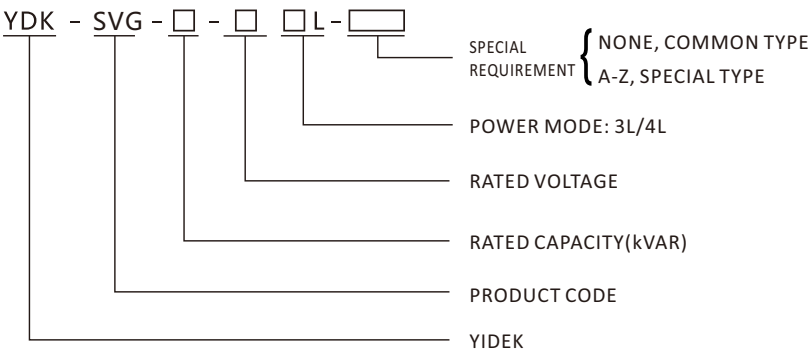
Dynamically and continuously compensates reactive power, stabilizes system voltage, and improves power quality by generating or absorbing reactive current in real time via power electronic devices.



WORKING PRINCIPLE



ORDER SPECIFICATION



TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

Specifications	Product Series	V8 Series
	Module Rating	30/50/75/100/150 kvar
	Module Dimensions (WxHxD)	500x200x530 mm
Input	Max. Parallel Units	12 units
	Operating Voltage	380V (±20%)
	Operating Frequency	50Hz/60Hz (±10%)
Functions	Current Transformer Ratio	50:5 ~ 30000:5
	Harmonic Compensation	2nd-13th order (50% of rated current)
	Harmonic Filtering Rate	Meets or exceeds JB/T11067-2011 standard
Communication	Reactive Power Compensation	Adjustable -1 to +1 (within unit capacity)
	Three-Phase Unbalance Compensation	100% unbalance fully compensated
	Protocol	RS485、Modbus
Technical Specifications	Interface	RS485、CAN
	PC Communication	Supported; all parameters configurable via PC
	Fault Alarm	Yes; up to 500 alarms logged
Mechanical Characteristics	Monitoring	Supports individual module or whole system monitoring
	Full Response Time	≤5ms
	Active Power Loss	≤3%
Environmental Requirements	Cooling	Intelligent air cooling
	Noise	≤50dB
	Protection Functions	Overvoltage, undervoltage, overtemperature, overcurrent, short circuit, etc. (20+ types)
	CT Installation Position	Load side or grid side
	Module Weight	30Kg (150K/200A), 23.5Kg (100K/150A), 19.5Kg (100A)
	Color	White RAL7035
	Operating Temperature	-10℃~+50℃
	Altitude	<5000 m (derate 1% per 100 m above 1000 m)
	Relative Humidity	<95%, non-condensing
	Protection Rating	IP20 (module)
	Pollution Degree	Class 2 (Class 3 available upon request)

*Subject to actual supply goods.



V8 Series Static Var Generator

More Recommendations➔



V7 Series Static Var Generator



E Series Static Var Generator



V3 Series Static Var Generator

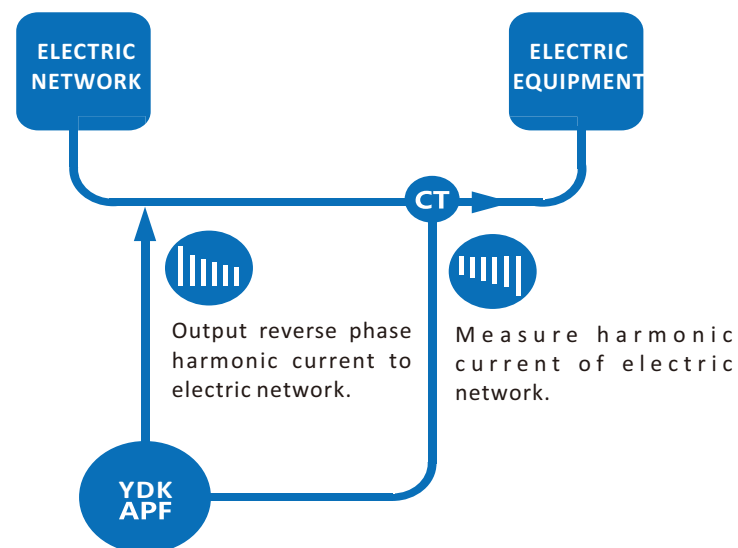
TIPS: Please ask YIDEK for more models.

APF (Active Power Filter)

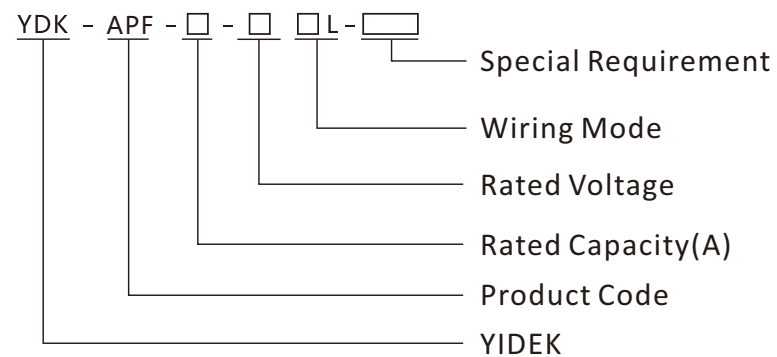
Dynamically filters grid harmonics, suppresses resonance, and improves power quality through real-time detection and generation of reverse harmonic current.



WORKING PRINCIPLE



ORDER SPECIFICATION



TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

Specifications	Product Series	V8 Series
	Module Rating	30/50/75/100/150 kvar
	Module Dimensions (WxHxD)	500x200x530 mm
Input	Max. Parallel Units	12 units
	Operating Voltage	380V (±20%)
	Operating Frequency	50Hz/60Hz (±10%)
Functions	Current Transformer Ratio	50:5 ~ 30000:5
	Harmonic Compensation	2nd~50th order
	Harmonic Filtering Rate	Meets or exceeds JB/T11067-2011 standard
Communication	Reactive Power Compensation	Adjustable -1 to +1 (within unit capacity)
	Three-Phase Unbalance Compensation	100% unbalance fully compensated
	Protocol	RS485、Modbus
Technical Specifications	Interface	RS485、CAN
	PC Communication	Supported; all parameters configurable via PC
	Fault Alarm	Yes; up to 500 alarms logged
Mechanical Characteristics	Monitoring	Supports individual module or whole system monitoring
	Full Response Time	≤5ms
	Active Power Loss	≤3%
Environmental Requirements	Cooling	Intelligent air cooling
	Noise	≤50dB
	Protection Functions	Overvoltage, undervoltage, overtemperature, overcurrent, short circuit, etc. (20+ types)
	CT Installation Position	Load side
	Module Weight	30Kg (150K/200A), 23.5Kg (100K/150A), 19.5Kg (100A)
	Color	White RAL7035
	Operating Temperature	-10°C~+50°C
	Altitude	<5000 m (derate 1% per 100 m above 1000 m)
	Relative Humidity	<95%, non-condensing
	Protection Rating	IP20 (module)
	Pollution Degree	Class 2 (Class 3 available upon request)

*Subject to actual supply goods.



V8 Series
Active Power Filter

More Recommendations➔



V7 Series
Active Power Filter



E Series
Active Power Filter



V3 Series
Active Power Filter

TIPS: Please ask YIDEK for more models.

Low-Voltage Integrated Power Quality Management Cabinet

One-stop integrated solution combining capacitors, SVG, and APF to comprehensively address reactive power and harmonic issues.



SVG Reactive Power Compensation Cabinet& APF Active Filter Cabinet



Capacitor Compensation Cabinet

Modular Design

Independent, compact power units for easy installation and maintenance. Ratings: 100~400kvar (reactive) and 30~150A (harmonic). Parallel operation: one unit fails, others keep running – high reliability.

PF = 1 Correction

Compensates both capacitive and inductive reactive power with continuous output, error <1%.

Harmonic Filtering

Filters 2nd–50th harmonics from nonlinear loads, improving power quality and equipment safety.

Unbalance Compensation

Corrects three-phase unbalance and excessive neutral current.

Fast & Reliable

Proprietary tech: 80kHz switching, 6kHz current loop bandwidth, response <10ms.

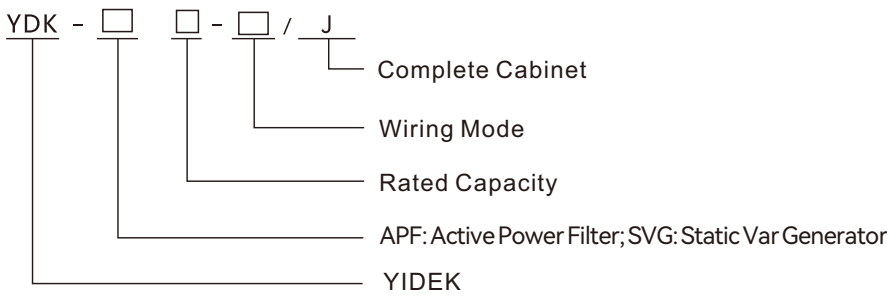
Flexible Use

Mix and match units: parallel for capacity expansion, reactive+harmonic combined, or passive phase-shifter to avoid resonance.

Easy Install & Maintain

Supports grid/load side CT sampling. Rack-mounted units, clear HMI alarms, modular swap of faulty units.

ORDER SPECIFICATION



TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

Specifications	Reactive Power Compensation	100/150/200/250/300/350/400 kvar
	Harmonic Management Unit	30/50/75/100/150A
Input	Operating Voltage	400V/690V (-20%~+15%)
	Operating Frequency	50Hz (-10%~+10%)
	Current Transformer	1~100 times of the device rated value
Functions	Compensable Harmonics	2nd~50th order
	Harmonic Filtering Rate	>97%
	Reactive Power Compensation	Compensate inductive & capacitive reactive power simultaneously, powerfactor corrected to 0.98
	Three-phase Unbalance Compensation	100% full compensation
Communication	Communication Protocol	Modbus
	Interface	RS485, Ethernet port
	Host Computer Support	All parameters configurable via hostcomputer software
	Fault Alarm	Up to 500 alarm records
Technical Specifications	Monitoring	Independent module monitoring & centralized whole-unit monitoring
	Full Response Time	<5ms
	Active Power Loss	<2.5%
	Cooling Mode	Intelligent forced air cooling
	Noise	<60dB
	Switching/Control Frequency	200kHz
	Equivalent Switching Frequency	80kHz
	Current Loop Cut-off Frequency	6.4kHz
	Protection Functions	Over-voltage, under-voltage, over-temperature, over-current, short circuit and 20+ other protections
Environmental Requirements	CT Mounting Position	Load side / source side optional
	Max Parallel Units	Unlimited
	Operating Temperature	-10°C~+45°C
	Altitude	<1500m (capacity derated by 1% per 100m increase)
	Relative Humidity	<99%
	Protection Degree	IP20 (higher grade customizable)

*Subject to actual supply goods.

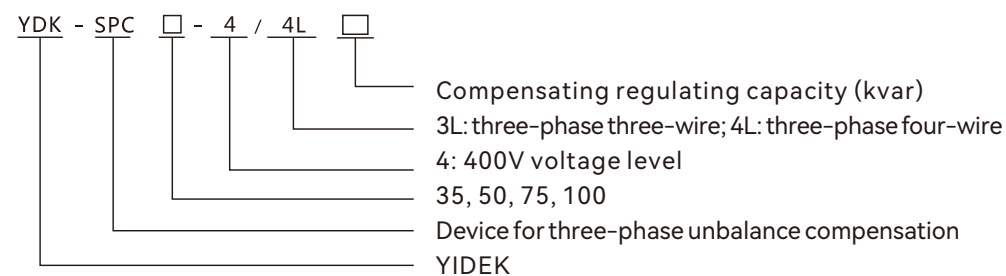
SPC

Three-Phase Unbalance Compensation Device

Three-phase imbalance control device (SPC) adopts power electronics technology; Provide solutions for power quality optimization.



ORDER SPECIFICATION



TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

Specifications	Parameter	35/50/75/100
	Rated voltage	380V/400V
	Phase voltage range	+20%
	Grid frequency	50Hz/60Hz (45~63Hz)
	Efficiency	>97%
Performance	Network configuration	3P3W/3P4W
	Topology	3-level
	Unbalance compensation	Unbalance <5%
	Rated current	50A/100A/150A
	Reactive power range	-1to +1 adjustable
	Reactive power capacity	35kvar/50kvar/75kvar
	Reactive powercompensation rate	>99%
	Response time	<10ms
Technical Specifications	Protection	Overvoltage, undervoltage, short circuit,overcompensation, dual surge protection
	Distribution	Two-circuit power distribution with Class C surge protection
	Standard	Built-in WiFi module
	Display	Real-time data: voltage, current, frequency,PF, temperature, etc.
Mechanical Characteristics	Interface	Ethernet port
	Protocol	Modbus/Telecom protocol
	Dimensions (WxH)	700x1140 mm
	Color	Stainless steel natural
	Weight	58kg/72kg/115kg
Environmental Requirements	Mounting	Outdoor floor / pole mount (H-pole, F-pole)
	Tilt angle	<5°
	Operating temp.	-10°C to +45°C
	Altitude	Derate above 1500m per IEC/TR60146-1-2:2011
	IP rating	IP44
	Seismic resistance	Magnitude 8

*Subject to actual supply goods.

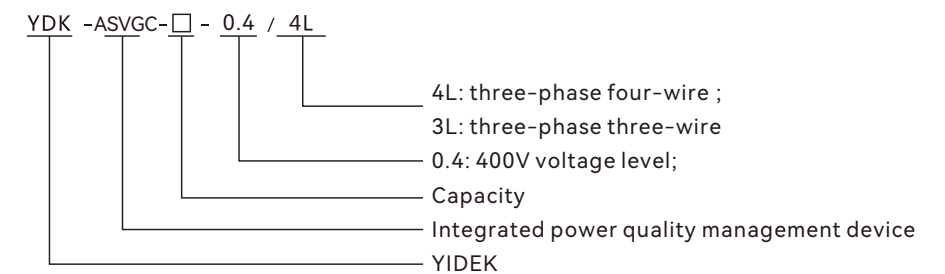
ASVGC

Integrated Power Quality Management Device

Dynamic compensation of reactive power, harmonics, and three-phase unbalance.



ORDER SPECIFICATION



TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

System	Rated input line voltage	380V (-20% ~ +20%)
	Grid frequency	50Hz
	Efficiency	≥97%
	Grid configuration	3P3W/3P4W
	Max. parallel units	Unlimited
Performance	Single CT source-side sampling (parallelmode)	Supported
	High protection capability	Supported
	Harmonic compensation	Supported
	Reactive power compensation	Supported
	Unbalance compensation	Supported
	Harmonic filtering range	2nd-13th (any orders selectable)
	Harmonic filtering rate	>95%
	Target power factor	Adjustable from -1 to +1
Communication & Monitoring	Communication interface	RS485, Modbus protocol
	Monitoring	Supports centralized monitoring
Environmental Requirements	Altitude	≤1500m; for 1500-4000m, derate 1% per 100m perGB/T3859.2
	Operating temperature	-10°C~+40°C
	Protection rating	IP44 (other IP ratings available on request)

*Subject to actual supply goods.

YDK-ASVGC Series Integrated Power Quality Management Device (for industrial projects / data centers)



YDK-ASVGC Series Integrated Power Quality Management Device (for photovoltaic applications)

DVR(Dynamic Voltage Regulator)

Intelligent Flexible Regulation Device for New Power Systems: Empowering Distribution Network Upgrades and Driving Efficient Industrial Energy Use.



PRODUCT FRATURES

- Low Loss**

Single-stage AC/DC conversion with efficiency up to 98%; bypass loss <0.3%.
- High Temperature Resistance**

Full load operation at ambient temperature of 50°C.
- High Accuracy, Wide Regulation Range**

Fully power electronic control; output voltage accuracy
- Protection**

Fully sealed design; electronic layer IP65, moisture-resistant; easy installation and long-term maintenance-free.
- Compact and Lightweight**

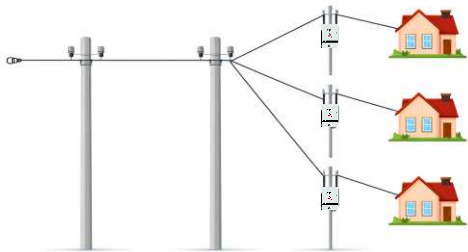
Smaller size and lighter weight; only one-eighth the weight and one-sixth the volume of traditional voltage stabilizers.
- Easy Operation**

Supports wireless or wired communication; Wi-Fi/4G for real-time status monitoring and parameter adjustment.

TYPICAL SCHEMATIC DIAGRAM

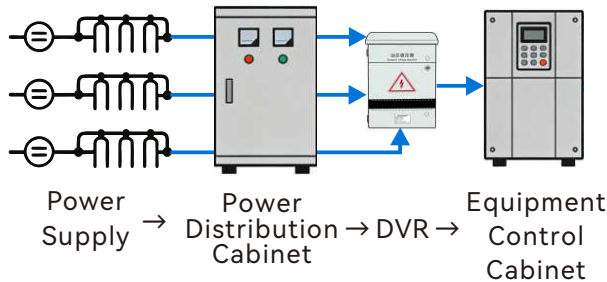
Grid Application:

Centralized Compensation Structure



Industrial Application:

Standalone Compensation Structure



TECHNICAL PARAMETER

Category	Parameter	Value				Notes
Specifications	Single-phase capacity	20kVA	33kVA	50kVA	66kVA	
	Three-phase capacity	50kVA	100kVA	150kVA	200kVA	
Voltage Regulation	Input voltage range	220V/380V (–40%~+35%)			(–20%~+35%)	
	Output rated current	150A	250A	380A	380A	
	Output rated current	90A	150A	227A	300A	
	Output voltage range	–10%~+7%				National standard range
	Continuous regulation	Continuous				
	Output voltage accuracy	<1%				
	Output voltage unbalance	<1%				
	Output voltage THDv	<2%				
Bypass	Upon fault	Automatic bypass				
	No compensation required	Automatic bypass				
	During maintenance	Manual bypass				
Communication	Communication mode	RS485、CAN				Remote monitoring and control with grid / communication terminal
		4G、WIFI				
Protection Rating	Electronic layer	IP65				Internal module, housed in outdoor cabinet
	Air duct	IP20				
	Outdoor cabinet	IP44				
Dynamic response time		<1ms				
Dynamic response time		<2%				
Bypass loss		<0.3%				
RMS overload capacity	Continuous overload	110%				Ambient temperature 30°C
Noise		<60dB				
Operating temperature		[–25C,+50C]				
Storage temperature		[–40C,+70C]				
Humidity		<99%				
Safety protection	Supports over-temperature protection, overvoltage protection, and undervoltage protection.					

*Subject to actual supply goods.

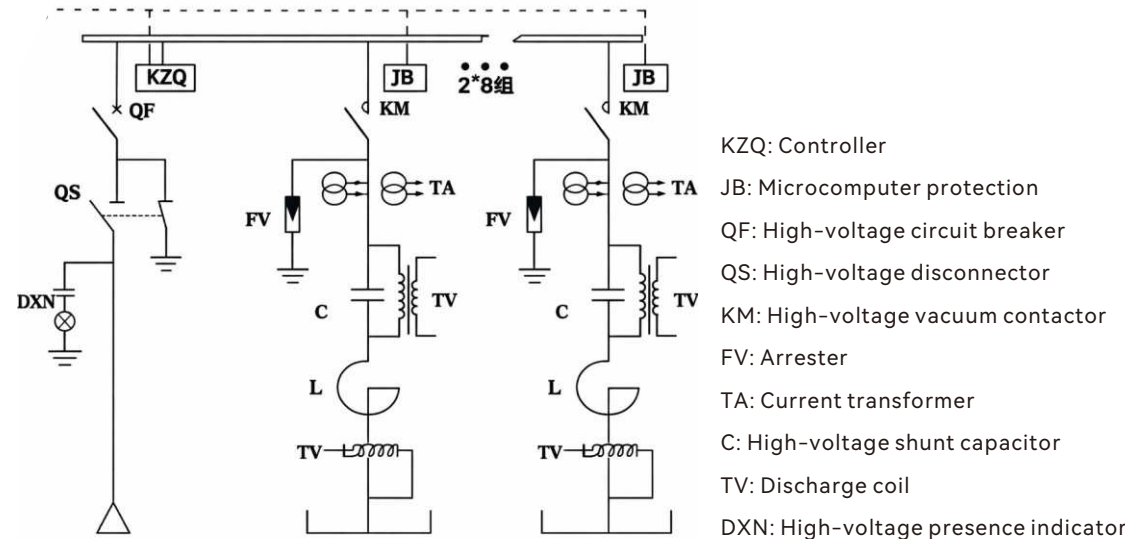
High-Voltage Shunt Capacitor Installation

Connected directly in parallel to the power system, supplying capacitive reactive power to compensate inductive reactive power, improve power factor, and stabilize system voltage.

Connected directly in parallel to the power system, supplying capacitive reactive power to compensate inductive reactive power, improve power factor, and stabilize system voltage.



WORKING PRINCIPLE



Control cabinet | Compensation cabinet | Compensation cabinet

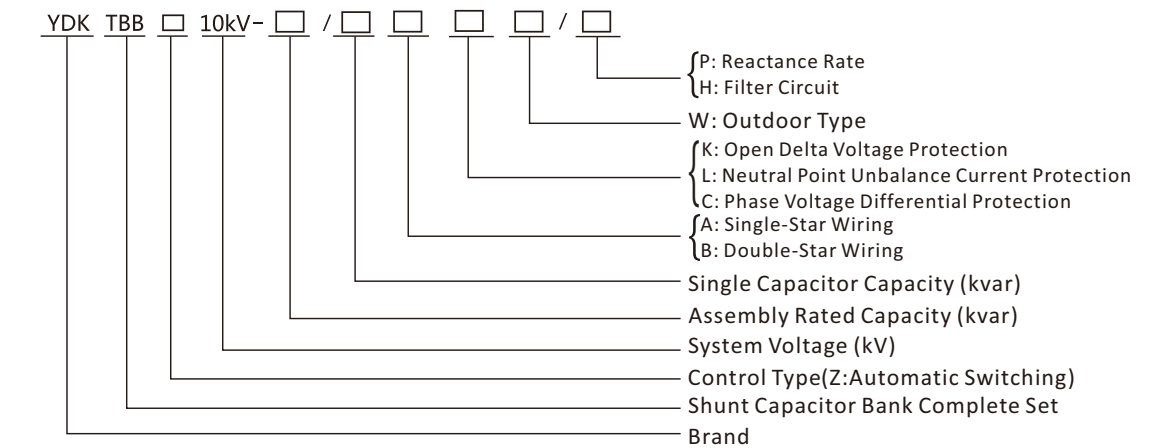
■ PRODUCT FRATURES

- **Reliable switching devices** – Uses non-restriking, non-bouncing vacuum contactors, vacuum circuit breakers, or SF₆ circuit breakers for automatic capacitor bank switching.
- **Automatic tracking compensation** – Control system detects, evaluates, and tracks to achieve preset power factor, optimizing voltage and power factor.
- **Modular cabinet construction** – Step-switched automatic compensation devices consist of multiple cabinets made of cold-rolled steel (bent, welded, powder-coated) or aluzinc steel (bent, assembled). Max IP40 protection.
- **Integrated three-phase design** – Dry-type iron-core reactor coils available in aluminum (default) or copper (specify if copper needed).
- **Overcurrent protection** – Step-switched compensation devices can be equipped with CTs for two-stage overcurrent protection of capacitor banks.



YDK-TBBZ Series High-Voltage Shunt Capacitor Installation

■ ORDER SPECIFICATION



TIPS: Please ask YIDEK for more models.

■ TECHNICAL PARAMETER

OPERATING ENVIRONMENT

- **Site Altitude:** < 1000 m
- **Ambient Temperature:** -40 ~ +45 °C
- **Relative Humidity:** < 85% (at 20±5 °C)
- **Inclination of installation surface:** ≤ 5 degrees
- Installation site shall be free from severe vibration, harmful gases/vapors, and conductive/explosive dust particles.
- Indoor installations require adequate ventilation.
- The switching device for this assembly utilizes high-quality vacuum circuit breakers or vacuum contactors.
- The upstream system should be equipped with over-voltage, under-voltage, over-current, and short-circuit relay protection.

TECHNICAL CHARACTERISTICS

- **Capacitance Tolerance:** -3% ~ +5%. Deviation between series segments < 1%. Phase-to-phase deviation < 3%.
- **Operating Voltage:** Capable of continuous operation under 1.10 Un power-frequency steady-state voltage. Under this condition, the peak value including all harmonic components shall be $\leq 1.2 \text{ Un}$.
- **Current Rating:** Permitted current up to **1.43 In**.
- **Capacitor Protection:** Utilizes both internal and external fuse protection.
- **Switching Logic:** Cyclic switching of capacitor banks (first-on, last-off sequence) with configurable switching delays.
- **Vacuum Contactor:** Features frequent operation capability, fast bounce-free closing/opening, low re-ignition rate during interruption, reliable operation, minimal maintenance, and long service life.

**Subject to actual supply goods.*

High Voltage Static Var Generator

The YDK-SVGH High-Voltage SVG offers the optimal solution for dynamic reactive power compensation.



Indoor Direct-Mounted Type

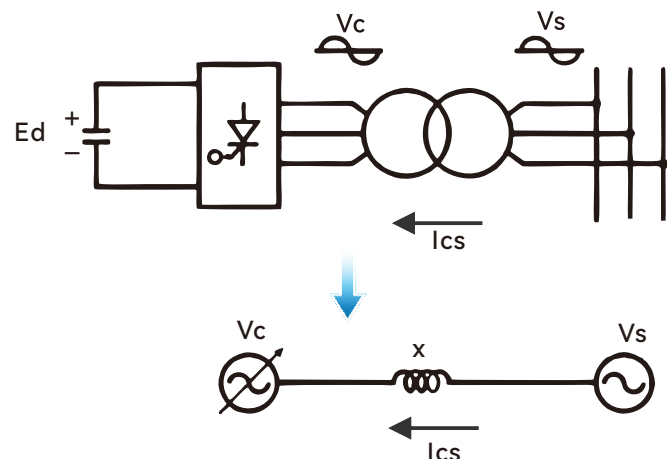


Outdoor Direct-Mounted Type



Outdoor Step-Down Type

WORKING PRINCIPLE

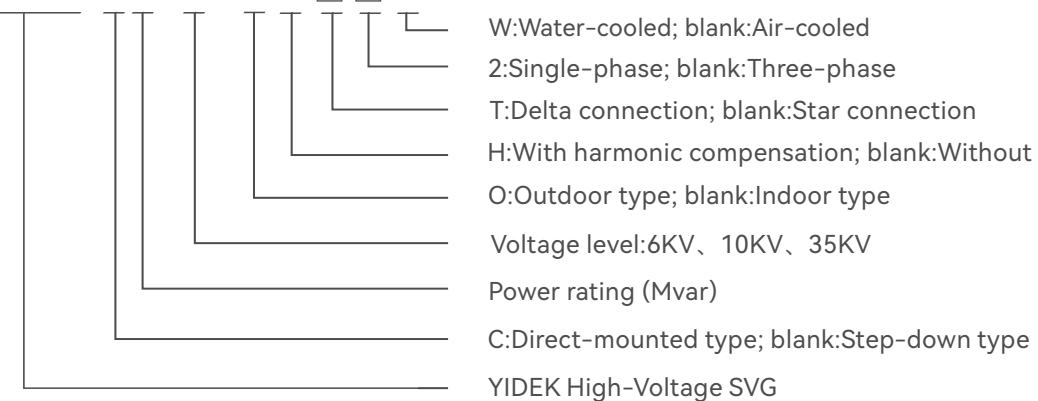


PRODUCT FRATURES

- Improve transmission line stability
- Maintain receiving-end voltage and enhance system voltage stability
- Compensate system reactive power, improve power factor, reduce line losses, and save energy
- Suppress voltage fluctuation and flicker
- Suppress three-phase unbalance

ORDER SPECIFICATION

YDK-SVGH-C1.0/10-O H □ □ W



Examples:

YDK-SVGH-C1.0/10-O:10KV, 1Mvar, direct-mounted, outdoor, air-cooled, with harmonic compensation, including prefabricated container.

YDK-SVGH-C3.0/35-OW:35KV, 3Mvar, direct-mounted, outdoor, water-cooled, with harmonic compensation, including prefabricated container.

YDK-SVGH-0.5/10-O:10KV, 0.5Mvar, step-down, outdoor, air-cooled, with harmonic compensation, including prefabricated container.

YDK-SVGH-0.5/10:10KV, 0.5Mvar, step-down, indoor, air-cooled, with harmonic compensation.

TIPS: Please ask YIDEK for more models.

TECHNICAL PARAMETER

Specification	3KV/6KV/10KV/35KV
Rated Capacity	±1Mvar ~ ±100Mvar
System Voltage	3kV、6kV、10kV、35kV
Frequency	50Hz
Functions	
Reactive Power Compensation	Power factor correction, continuously adjustable from -1.0 to +1.0
Three-Phase Unbalance Compensation	100% unbalance fully adjustable
Harmonic Compensation	Up to the 13th order, filtering efficiency >70%
Functions	
Response Time	≤5ms
Power Loss	≤0.8%
Cooling Method	Intelligent Air Cooling / Water Cooling
Total Harmonic Current Distortion (THDi)	≤3%
Control Power Supply	380VAC, 220VAC, or 220VDC
Reactive Power Regulation Mode	Automatic, continuous, and smooth adjustment (Capacitive/Inductive)
Minimum Compensation Power	5kvar
Compensation Current Resolution	0.5A
Monitoring & Communication	
Communication Interfaces	Ethernet, RS485, CAN, High-speed Fiber Optic
Communication Protocols	MODBUS_RTU, ProfiBUS, Power CDT91, IEC 61850-103/104, CANOPEN, User-defined
Parallel Operation	Supports multi-unit parallel operation and multi-busbar comprehensive compensation
Environmental Requirements	
Operating Temperature	-10°C ~ +40°C
Altitude	≤2000m (Special design required for >2000m)
Relative Humidity	Monthly average ≤90% (at 25°C), non-condensing
Ingress Protection (IP) Rating	Ip40 (Indoor), IP44 (Outdoor)

*Subject to actual supply goods.

Power Meters

Provides solutions for power parameter measurement, power quality monitoring and analysis, and electrical equipment status monitoring and control.



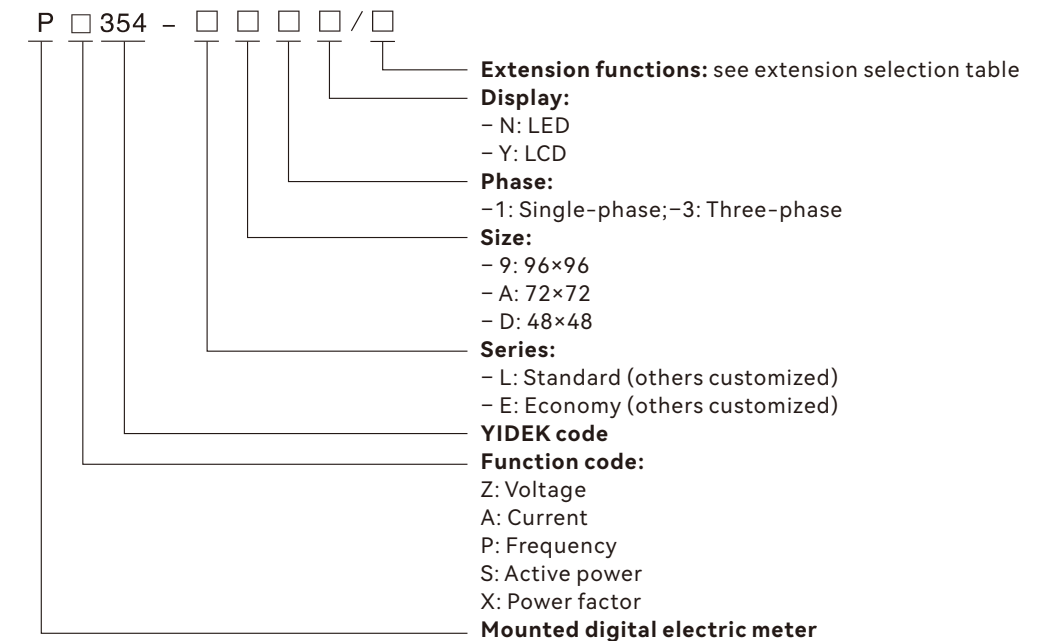
TECHNICAL PARAMETER

Input Characteristics	Data refresh cycle	1s
	Rated voltage	100V/400V AC
	Voltage overload	1.2 Un
	Voltage consumption	≤0.2VA
	Voltage impedance	≥1MΩ
	Rated current	1A/5A
	Current overload	Continuous 1.2 In, instantaneous 10 In/3s
	Current consumption	≤0.2VA
	Current impedance	≤20mΩ
	Grid frequency	50±5% / 60±5% Hz
Power Supply	Operating range	AC/DC (85~265)V
	Power loss	≤0.5VA
Measurement Accuracy	Voltage/Current	0.5%
	Power	0.5%
	Frequency	±0.02Hz
	Active energy	IEC62053-22 Class 0.5
	Reactive energy	IEC62053-23 Class 1
	Energy pulse output	2 opto-isolated outputs, pulse width (80±20%)ms
	Digital input	Dry contact input, isolation 2000V AC
	Relay output	Contact capacity AC250V/5A or DC30V/5A, isolation 1500V AC
	Analog output	Accuracy 0.5%, load resistance ≤300Ω
	RS485 interface	Modbus-RTU protocol, baud rate up to 19200bps
	IP protection	IP30
	Operating temperature	(-15~50)°C
	Storage temperature	(-30~70)°C
	Relative humidity	(20~95)% non-condensing
	Pollution degree	2
	Measurement category	CAT II, for (277/480)V AC distribution system
	ESD	IEC61000-4-2 to -11, Level III
	Radiated RF	IEC61000-4-3 to -11, Level III
	Fast transients burst	IEC61000-4-4 to -11, Level III
	Surge	IEC61000-4-5 to -11, Level III
	Conducted RF	IEC61000-4-6 to -11, Level III
	Power frequency magnetic field	IEC61000-4-8 to -11, Level III
	Voltage dips & interruptions	IEC61000-4-11 to -11, Level III

*Subject to actual supply goods.

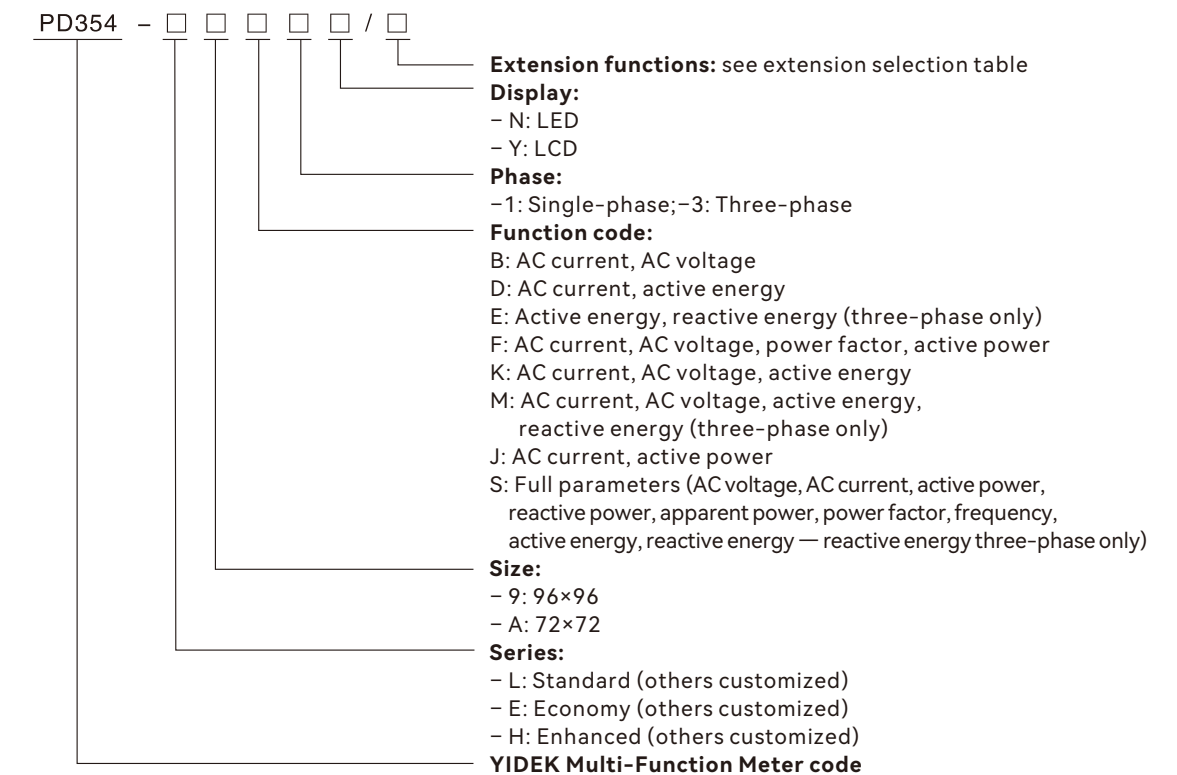
ORDER SPECIFICATION

Single-Function Meter



Note: AC/DC current and voltage meters available.

Multi-Function Meter



TIPS: Please ask YIDEK for more models.