

Active Harmonic Filter PQSine S

Series/Type: 3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Ordering code: B44066F*S

Date: May 2024

Version: 3

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B44066F*S

Active Harmonic Filter PQSine S

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Description

- Designed to mitigate / reduce harmonic distortions
- Monitors the current and compensates the selected harmonics of the measured current
- Compensates for the fundamental reactive power → both inductive and capacitive
- Load balancing, including neutral current compensation (in case of 4 wire configuration)

Active Harmonic Filter & Pe PQSine⁷⁴ S Series

Features

- User-friendly menu operation via TFT color touch screen
- Harmonic compensation up to the 51st harmonic
- Ultra-fast reactive power compensation
- Load balancing between phases
- Advanced digital control FFT
- Intelligent and instantaneous reactive power
- Ethernet system for interconnection and monitoring
- High performance and reliability
- Simple installation and commissioning

Applications

- Industrial applications with non-linear loads such as variable frequency drives, inverters, UPS, Furnaces
- Renewable energy (e.g. photovoltaics and wind turbines)
- Buildings (hotels, hospitals, shopping malls)
- Data Centers, IT/ITES
- **EV Charging Stations**

Safety Characteristics

- Very high safety and reliability
- Overload protection
- Short-circuit protection
- Overtemperature protection
- Overvoltage and undervoltage protection
- Converter bridge reverse protection
- Resonance protection
- Fan fault alarm







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Active Harmonic Filter PQSine S

Tech	nical data and	specification	200 V ¹ & 400 V				
Item	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A		
System parameter							
Grid voltage	2	00 V (176 V	263 V) & 400 V	(228 V 456	V)		
Grid frequency		4	45 Hz 62.5 H	z			
Network configuration	3P3W / 3P4W						
Setting of CT Ratio	150/510000/5						
Topology		-	Three-level IGB	Т			
Harmonic compensation			Supported				
Reactive compensation			Supported				
Unbalance compensation			Supported				
Performance indicator							
Rated capacity	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A		
Rated comp. current of phase wire	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A		
Rated comp. current of neutral line	75 A / 105 A	150 A / 180 A	225 A	300 A	450 A		
Filtering range			2 nd 51 st				
Individual Harmonics Selection		Availa	ble between 2 nd	51 st			
Individual Harmonics Magnitude		Adjusta	able between 0	- 100%			
Harmonic attenuation rate		> 97% (for s	ignature harmoi	nic spectrum)			
Overall efficiency (100% load)	≥ 97	7%(depending o	n the load and	operating condi	tions		
Typical power losses	< 39	% (depending o	n the load and c	perating condit	ions)		
Reaction time*			< 50 µs				
Response time			< 5 ms				
Target power factor		Adjusta	able between –	1 + 1			
Control algorithm	FFT algorithm	n, intelligent FF	T algorithm, ins	tantaneous read	ctive algorith		
Switching frequency	20 kHz						
Cooling mode (smart cooling)	151 L/s	115 L/s	222 L/s	336 L/s	360L/s		
Noise level	< 56 dB	< 56 dB	< 56 dB	< 56 dB	< 65 dB		



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3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Tech	nical data and	specification 2	200 V ¹ & 400	V			
Item	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A		
Communication, protection, mor	itoring and dis	splay		•			
Communication interface	RS485 / Netw	ork interface (R	(J45)				
Communication protocol	Modbus proto	col, TCP/IP					
Protective function for		Overvoltage, under voltage, short-circuit, inverter bridge reverse protection, over temperature, overcompensation, DC-Link, Resonance					
CT Monitoring alarm	available						
Fault alarm	Active and history of alarms available						
Display	 Rack mounted units do not include a built-in display. An additional 7 inch HMI display is necessary. Wall mounted units include a built-in 4.3 inch HMI display Floor mounted cabinets include a centralized 7 inch HMI display 						
Display parameters	Simultaneous display of Grid and Load side [Voltage, Current, Power Factor, Ithd%, Vthd%, Active, Reactive and Apparent Power] Compensation current of AHF in absolute values and %						
Physical characteristics							
Mounting		d Floor Mountir					
Net weight (wall / rack module)	18 kg	18 kg	23 kg	35 kg	44 kg		
Color	Light gray, cal	binet RAL7035					
Environmental requirement							
Altitude				ccordance with n 1% for every ad			
Operating temperature	-10 °C + 50 (Unit's output	-	if inlet temp	erature of air is >	- 40 °C)		
Relative humidity	95 %, non-cor	ndensing					
Protection class	*	zed IP classes	available up	on request			
Storage temperature	- 40 °C + 7	0 °C					
Certifications, compliances, refe	rence standard	ls					
Certifications	CE						
Compliances / Reference Standards	LV Directive 2 EU Directive 2 EMC Directive	2011/65/EU Rol	HS	EN 62477-1:20 EN 61000-6-4: EN 61000-6-2:	2007 / A1:2011		

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 $^{^1}$ The complete range is also available in 200 V (176 V \dots 263 V)

 $^{^{2}% \}left(-1\right) =0$ For derating details reach out to TDK representative for further details

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Characteristics and ordering codes

Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code
	Α	٧	V		kg	mm	
Rack mounted uni	ts ³						
PQSM3025S200	25	176	263	Rack	18	440 x 470 x 150	B44066F3025S200
PQSM3035S200	35	176	263	Rack	18	440 x 470 x 150	B44066F3035S200
PQSM3050S200	50	176	263	Rack	23	500 x 515 x 180	B44066F3050S200
PQSM3060S200	60	176	263	Rack	23	500 x 515 x 180	B44066F3060S200
PQSM3075S200	75	176	263	Rack	28	500 x 546 x 190	B44066F3075S200
PQSM3100S200	100	176	263	Rack	35	500 x 575 x 285	B44066F3100S200
PQSM3150S200	150	176	263	Rack	44	500 x 605 x 270	B44066F3150S200
Wall mounted unit	s ⁴	•	•	•	•	•	•
PQSW3025S244	25	176	263	Wall	18	440 x 150 x 485	B44066F3025S244
PQSW3035S244	35	176	263	Wall	18	440 x 150 x 485	B44066F3035S244
PQSW3050S244	50	176	263	Wall	23	500 x 180 x 540	B44066F3050S244
PQSW3060S244	60	176	263	Wall	23	500 x 180 x 540	B44066F3060S244
PQSW3075S244	75	176	263	Wall	28	500 x 190 x 585	B44066F3075S244
PQSW3100S244	100	176	263	Wall	35	500 x 200 x 599	B44066F3100S244
PQSW3150S244	150	176	263	Wall	44	500 x 273 x 638	B44066F3150S244
Floor mounted uni	ts ⁵	l	I	-1	I	1	
PQSF3100S215	100	176	263	Floor	285	600 x 1000 x 2200	B44066F3100S215
PQSF3150S215	150	176	263	Floor	294	600 x 1000 x 2200	B44066F3150S215
PQSF3200S215	200	176	263	Floor	320	600 x 1000 x 2200	B44066F3200S215
PQSF3250S215	250	176	263	Floor	329	600 x 1000 x 2200	B44066F3250S215
PQSF3300S215	300	176	263	Floor	338	600 x 1000 x 2200	B44066F3300S215
PQSF3350S215	350	176	263	Floor	364	600 x 1000 x 2200	B44066F3350S215
PQSF3400S215	400	176	263	Floor	373	600 x 1000 x 2200	B44066F3400S215
PQSF3450S215	450	176	263	Floor	382	600 x 1000 x 2200	B44066F3450S215
PQSF3500S215	500	176	263	Floor	408	600 x 1000 x 2200	B44066F3500S215
PQSF3550S215	550	176	263	Floor	417	600 x 1000 x 2200	B44066F3550S215
PQSF3600S215	600	176	263	Floor	426	600 x 1000 x 2200	B44066F3600S215
PQSF3750S225	750	176	263	Floor	720	1200 x 1000 x 2200	B44066F3750S225
PQSF3900S225	900	176	263	Floor	764	1200 x 1000 x 2200	B44066F3900S225
PQSF3115S225	1150	176	263	Floor	843	1200 x 1000 x 2200	B44066F3115S225
PQSF3120S225	1200	176	263	Floor	852	1200 x 1000 x 2200	B44066F3120S225

³ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

⁴ All wall mounted units include a built-in 4.3-inch HMI display

⁵ All floor mounted cabinets include a 7-inch HMI display

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Туре	Rated filter	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.)	Ordering code
	current A	v	v		kg	(W x D x H) mm	
Rack mounted uni	ts ³						
PQSM4025S200	25	176	263	Rack	18	440 x 470 x 150	B44066F4025S200
PQSM4035S200	35	176	263	Rack	18	440 x 470 x 150	B44066F4035S200
PQSM4050S200	50	176	263	Rack	23	500 x 515 x 180	B44066F4050S200
PQSM4060S200	60	176	263	Rack	23	500 x 515 x 180	B44066F4060S200
PQSM4075S200	75	176	263	Rack	28	500 x 546 x 190	B44066F4075S200
PQSM4100S200	100	176	263	Rack	35	500 x 575 x 200	B44066F4100S200
PQSM4150S200	150	176	263	Rack	44	500 x 605 x 270	B44066F4150S200
Wall mounted unit	s ⁴	1	ı		ı	•	•
PQSW4025S244	25	176	263	Wall	18	440 x 150 x 485	B44066F4025S244
PQSW4035S244	35	176	263	Wall	18	440 x 150 x 485	B44066F4035S244
PQSW4050S244	50	176	263	Wall	23	500 x 180 x 540	B44066F4050S244
PQSW4060S244	60	176	263	Wall	23	500 x 180 x 540	B44066F4060S244
PQSW4075S244	75	176	263	Wall	28	500 x 190 x 585	B44066F4075S244
PQSW4100S244	100	176	263	Wall	35	500 x 200 x 599	B44066F4100S244
PQSW4150S244	150	176	263	Wall	44	500 x 273 x 638	B44066F4150S244
Floor mounted cal	oinets ⁵					1	1
PQSF4100S215	100	176	263	Floor	285	600 x 1000 x 2200	B44066F4100S215
PQSF4150S215	150	176	263	Floor	294	600 x 1000 x 2200	B44066F4150S215
PQSF4200S215	200	176	263	Floor	320	600 x 1000 x 2200	B44066F4200S215
PQSF4250S215	250	176	263	Floor	329	600 x 1000 x 2200	B44066F4250S215
PQSF4300S215	300	176	263	Floor	338	600 x 1000 x 2200	B44066F4300S215
PQSF4350S215	350	176	263	Floor	364	600 x 1000 x 2200	B44066F4350S215
PQSF4400S215	400	176	263	Floor	373	600 x 1000 x 2200	B44066F4400S215
PQSF4450S215	450	176	263	Floor	382	600 x 1000 x 2200	B44066F4450S215
PQSF4500S215	500	176	263	Floor	408	600 x 1000 x 2200	B44066F4500S215
PQSF4550S215	550	176	263	Floor	417	600 x 1000 x 2200	B44066F4550S215
PQSF4600S215	600	176	263	Floor	426	600 x 1000 x 2200	B44066F4600S215
PQSF4750S225	750	176	263	Floor	720	1200 x 1000 x 2200	B44066F4750S225
PQSF4900S225	900	176	263	Floor	764	1200 x 1000 x 2200	B44066F4900S225
PQSF4115S225	1150	176	263	Floor	843	1200 x 1000 x 2200	B44066F4115S225
PQSF4120S225	1200	176	263	Floor	852	1200 x 1000 x 2200	B44066F4120S225

³ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

⁴ Wall mounted units include a built-in 4.3-inch HMI display

⁵ Floor mounted cabinets include a 7-inch HMI display



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Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code
	Α	V	٧		kg	mm	
Rack mounted uni	ts ³						
PQSM3025S300	25	228	456	Rack	18	440 x 470 x 150	B44066F3025S300
PQSM3035S300	35	228	456	Rack	18	440 x 470 x 150	B44066F3035S300
PQSM3050S300	50	228	456	Rack	23	500 x 515 x 180	B44066F3050S300
PQSM3060S300	60	228	456	Rack	23	500 x 515 x 180	B44066F3060S300
PQSM3075S300	75	228	456	Rack	28	500 x 546 x 190	B44066F3075S300
PQSM3100S300	100	228	456	Rack	35	500 x 575 x 200	B44066F3100S300
PQSM3150S300	150	228	456	Rack	44	500 x 605 x 270	B44066F3150S300
Wall mounted unit	:s ⁴	1	1	1	1	1	ı
PQSW3025S344	25	228	456	Wall	18	440 x 150 x 485	B44066F3025S344
PQSW3035S344	35	228	456	Wall	18	440 x 150 x 485	B44066F3035S344
PQSW3050S344	50	228	456	Wall	23	500 x 180 x 540	B44066F3050S344
PQSW3060S344	60	228	456	Wall	23	500 x 180 x 540	B44066F3060S344
PQSW3075S344	75	228	456	Wall	28	500 x 190 x 585	B44066F3075S344
PQSW3100S344	100	228	456	Wall	35	500 x 200 x 599	B44066F3100S344
PQSW3150S344	150	228	456	Wall	44	500 x 273 x 638	B44066F3150S344
Floor mounted cal	oinets ⁵		I	-II	II.		<u> </u>
PQSF3100S315	100	228	456	Floor	285	600 x 1000 x 2200	B44066F3100S315
PQSF3150S315	150	228	456	Floor	294	600 x 1000 x 2200	B44066F3150S315
PQSF3200S315	200	228	456	Floor	320	600 x 1000 x 2200	B44066F3200S315
PQSF3250S315	250	228	456	Floor	329	600 x 1000 x 2200	B44066F3250S315
PQSF3300S315	300	228	456	Floor	338	600 x 1000 x 2200	B44066F3300S315
PQSF3350S315	350	228	456	Floor	364	600 x 1000 x 2200	B44066F3350S315
PQSF3400S315	400	228	456	Floor	373	600 x 1000 x 2200	B44066F3400S315
PQSF3450S315	450	228	456	Floor	382	600 x 1000 x 2200	B44066F3450S315
PQSF3500S315	500	228	456	Floor	408	600 x 1000 x 2200	B44066F3500S315
PQSF3550S315	550	228	456	Floor	417	600 x 1000 x 2200	B44066F3550S315
PQSF3600S315	600	228	456	Floor	426	600 x 1000 x 2200	B44066F3600S315
PQSF3750S325	750	228	456	Floor	720	1200 x 1000 x 2200	B44066F3750S325
PQSF3900S325	900	228	456	Floor	764	1200 x 1000 x 2200	B44066F3900S325
PQSF3115S325	1150	228	456	Floor	843	1200 x 1000 x 2200	B44066F3115S325
PQSF3120S325	1200	228	456	Floor	852	1200 x 1000 x 2200	B44066F3120S325

 $^{^3}$ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

⁴ Wall mounted units include a built-in 4.3-inch HMI display

 $^{^{\}rm 5}$ Floor mounted cabinets include a 7-inch HMI display



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Active Harmonic Filter PQSine S

Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code
	Α	V	٧		kg	mm	
Rack mounted uni	ts ³						
PQSM4025S300	25	228	456	Rack	18	440 x 470 x 150	B44066F4025S300
PQSM4035S300	35	228	456	Rack	18	440 x 470 x 150	B44066F4035S300
PQSM4050S300	50	228	456	Rack	23	500 x 515 x 180	B44066F4050S300
PQSM4060S300	60	228	456	Rack	23	500 x 515 x 180	B44066F4060S300
PQSM4075S300	75	228	456	Rack	28	500 x 546 x 190	B44066F4075S300
PQSM4100S300	100	228	456	Rack	35	500 x 575 x 200	B44066F4100S300
PQSM4150S300	150	228	456	Rack	44	500 x 605 x 270	B44066F4150S300
Wall mounted unit	:s ⁴	1	I	·L	I	L	I.
PQSW4025S344	25	228	456	Wall	18	440 x 150 x 485	B44066F4025S344
PQSW4035S344	35	228	456	Wall	18	440 x 150 x 485	B44066F4035S344
PQSW4050S344	50	228	456	Wall	23	500 x 180 x 540	B44066F4050S344
PQSW4060S344	60	228	456	Wall	23	500 x 180 x 540	B44066F4060S344
PQSW4075S344	75	228	456	Wall	28	500 x 190 x 585	B44066F4075S344
PQSW4100S344	100	228	456	Wall	35	500 x 200 x 599	B44066F4100S344
PQSW4150S344	150	228	456	Wall	44	500 x 273 x 638	B44066F4150S344
Floor mounted cal	pinets ⁵	-1	L	1	1		ı
PQSF4100S315	100	228	456	Floor	285	600 x 1000 x 2200	B44066F4100S315
PQSF4150S315	150	228	456	Floor	294	600 x 1000 x 2200	B44066F4150S315
PQSF4200S315	200	228	456	Floor	320	600 x 1000 x 2200	B44066F4200S315
PQSF4250S315	250	228	456	Floor	329	600 x 1000 x 2200	B44066F4250S315
PQSF4300S315	300	228	456	Floor	338	600 x 1000 x 2200	B44066F4300S315
PQSF4350S315	350	228	456	Floor	364	600 x 1000 x 2200	B44066F4350S315
PQSF4400S315	400	228	456	Floor	373	600 x 1000 x 2200	B44066F4400S315
PQSF4450S315	450	228	456	Floor	382	600 x 1000 x 2200	B44066F4450S315
PQSF4500S315	500	228	456	Floor	408	600 x 1000 x 2200	B44066F4500S315
PQSF4550S315	550	228	456	Floor	417	600 x 1000 x 2200	B44066F4550S315
PQSF4600S315	600	228	456	Floor	426	600 x 1000 x 2200	B44066F4600S315
PQSF4750S325	750	228	456	Floor	720	1200 x 1000 x 2200	B44066F4750S325
PQSF4900S325	900	228	456	Floor	764	1200 x 1000 x 2200	B44066F4900S325
PQSF4115S325	1150	228	456	Floor	843	1200 x 1000 x 2200	B44066F4115S325
PQSF4120S325	1200	228	456	Floor	852	1200 x 1000 x 2200	B44066F4120S325

 $^{^3}$ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

⁴ Wall mounted units include a built-in 4.3-inch HMI display

 $^{^{\}rm 5}$ Floor mounted cabinets include a 7-inch HMI display



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Active Harmonic Filter PQSine S

Technical data and specific	ation 480 V ra	nge (based on	400 V design o	only available i	n 3P3W)			
Item	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A			
System Parameter								
Grid voltage		480	V (383 V 52	25 V)				
Grid frequency		4	15 Hz 62.5 H	Z				
Network configuration		3P3W						
Setting of CT Ratio		150/510000/5						
Topology		Three-le	evel topological	structure				
Harmonic compensation			Supported					
Reactive compensation			Supported					
Unbalance compensation		Supported						
Performance Indicator								
Rated capacity	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A			
Rated comp. current of phase wire	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A			
Rated comp. current of neutral line	75 A / 105 A	150 A / 180 A	225 A	300 A	450 A			
Filtering range			2 nd 51 st					
Individual Harmonics Selection		Availa	ble between 2 nd	51 st				
Individual Harmonics Magnitude		Adjusta	able between 0	- 100%				
Harmonic attenuation rate		> 97% (for s	ignature harmoi	nic spectrum)				
Overall efficiency (100% load)	≥ 97	%(depending o	n the load and o	operating condi	tions)			
Typical power losses	< 39	% (depending o	n the load and c	perating condit	ions)			
Reaction time*			< 50 µs					
Response time			< 5 ms					
Target PF		Adjusta	able between –	1 + 1				
Control algorithm	FFT algorithm	n, intelligent FF	Γalgorithm, ins	tantaneous read	ctive algorithn			
Switching frequency	20 kHz							
Cooling mode (smart cooling)	151 L/s	115 L/s	222 L/s	336 L/s	360 L/s			
	+	+	1	+	l			



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Active Harmonic Filter PQSine S

Item	25 A / 35 A	50 A / 60 A	75 A	100 A	150 A			
Communication, protection, mo	nitoring, and di	splay						
Communication interface	RS485 / Netw	ork interface (R	J45)					
Communication protocol	Modbus proto	col, TCP/IP						
Protective function for				inverter bridge rensation, DC-Link				
CT Monitoring alarm	available	available						
Fault alarm	Active and his	Active and history of alarms available						
Display	inch HMI dis - Wall mounte - Floor moun	 Rack mounted units do not include a built-in display. An additional 7 inch HMI display is necessary. Wall mounted units include a built-in 4.3-inch HMI display Floor mounted cabinets include a centralized 7-inch HMI display 						
Display parameters	[Voltage, Curr Apparent Pow	Simultaneous display of Grid and Load side [Voltage, Current, Power Factor, Ithd%, Vthd%, Active, Reactive and Apparent Power], Compensation current of AHF in absolute values and %						
Physical Characteristics								
Mounting		d Floor Mountin						
Net weight (wall / rack module)	18 kg	18 kg	23 kg	35 kg	44 kg			
Color	Light gray, cal	oinet RAL7035						
Environmental requirement								
Altitude	standard GB/	Γ3859.2, power	,	ccordance with n				
Operating temperature	-10 °C + 50 (Unit's output	_	if inlet temp	erature of air is >	· 40 °C)			
Relative humidity	95 %, non-cor	ndensing						
Protection class		zed IP classes	available up	on request				
Storage temperature	- 40 °C + 7	0 °C						
Certifications, Compliances, Ref	erence Standa	rds						
Certifications	CE							
Compliances / Reference Standards	LV Directive 2 EU Directive 2	014/35/EU 2011/65/EU Rol	HS	EN 62477-1:20 EN 61000-6-4:				

 $^{^{\}rm 6}$ For derating details reach out to TDK representative for further details

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Active Harmonic Filter PQSine S

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Characteristics and ordering codes

Туре	Rated	Voltage	Voltage	Mounting	Weight (approx.)	Dimensions	Ordering code
	filter			(max) variant		(approx.) (W x D x H)	
	A	v	V		kg	mm	
Rack mounted uni	ts ³	•		•	•		
PQSM9025S400	25	372	526	Rack	18	440 x 470 x 150	B44066F9025S400
PQSM9035S400	35	372	526	Rack	18	440 x 470 x 150	B44066F9035S400
PQSM9050S400	50	372	526	Rack	23	500 x 515 x 180	B44066F9050S400
PQSM9060S400	60	372	526	Rack	23	500 x 515 x 180	B44066F9060S400
PQSM9075S400	75	372	526	Rack	28	500 x 546 x 190	B44066F9075S400
PQSM9100S400	100	372	526	Rack	35	500 x 575 x 200	B44066F9100S400
PQSM9150S400	150	372	526	Rack	44	500 x 605 x 270	B44066F9150S400
Wall mounted unit	:S ⁴	1			1	I.	
PQSW9025S444	25	372	526	Wall	18	440 x 150 x 485	B44066F9025S444
PQSW9035S444	35	372	526	Wall	18	440 x 150 x 485	B44066F9035S444
PQSW9050S444	50	372	526	Wall	23	500 x 180 x 540	B44066F9050S444
PQSW9060S444	60	372	526	Wall	23	500 x 180 x 540	B44066F9060S444
PQSW9075S444	75	372	526	Wall	28	500 x 190 x 585	B44066F9075S444
PQSW9100S444	100	372	526	Wall	35	500 x 200 x 599	B44066F9100S444
PQSW9150S444	150	372	526	Wall	44	500 x 273 x 638	B44066F9150S444
Floor mounted cal	oinets ⁵			1	Ш		
PQSF9100S415	100	372	526	Floor	285	600 x 1000 x 2200	B44066F9100S415
PQSF9150S415	150	372	526	Floor	294	600 x 1000 x 2200	B44066F9150S415
PQSF9200S415	200	372	526	Floor	320	600 x 1000 x 2200	B44066F9200S415
PQSF9250S415	250	372	526	Floor	320	600 x 1000 x 2200	B44066F9250S415
PQSF9300S415	300	372	526	Floor	329	600 x 1000 x 2200	B44066F9300S415
PQSF9350S415	350	372	526	Floor	364	600 x 1000 x 2200	B44066F9350S415
PQSF9400S415	400	372	526	Floor	373	600 x 1000 x 2200	B44066F9400S415
PQSF9450S415	450	372	526	Floor	382	600 x 1000 x 2200	B44066F9450S415
PQSF9500S415	500	372	526	Floor	408	600 x 1000 x 2200	B44066F9500S415
PQSF9550S415	550	372	526	Floor	417	600 x 1000 x 2200	B44066F9550S415
PQSF9600S415	600	372	526	Floor	426	600 x 1000 x 2200	B44066F9600S415
PQSF9750S425	750	372	526	Floor	720	1200 x 1000 x 2200	B44066F9750S425
PQSF9900S425	900	372	526	Floor	764	1200 x 1000 x 2200	B44066F9900S425
PQSF9115S425	1150	372	526	Floor	843	1200 x 1000 x 2200	B44066F9115S425
PQSF9120S425	1200	372	526	Floor	852	1200 x 1000 x 2200	B44066F9120S425

 $^{^3}$ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

⁴ Wall mounted units include a built-in 4.3-inch HMI display

⁵ Floor mounted cabinets include a 7-inch HMI display



B44066F*S

Active Harmonic Filter PQSine S

Technical data and	specification 480 V / 600) V / 690 V (based on UL	. design) ⁷				
Item	50 A	75 A	100 A				
System Parameter							
Grid voltage	480 V (384 V 552 V)	/ 600 V (420 V690 V)	/ 690 V (483 V 793 V)				
Grid frequency		45 Hz 62 Hz					
Network configuration	3P3W / 3P4W						
Setting of CT Ratio		150/510000/5					
Topology	Thr	ee-level topological struc	ture				
Harmonic compensation		Supported					
Reactive compensation		Supported					
Unbalance compensation		Supported					
Performance Indicator							
Rated capacity	50 A	75 A	100 A				
Rated comp. current of phase wire	50 A 75 A		100 A				
Rated comp. current of neutral line	150 A	225 A	300 A				
Filtering range		2 nd 51 st					
Individual Harmonics Selection	Av	vailable between 2 nd 5	1 st				
Individual Harmonics Magnitude	Ac	ljustable between 0 – 100)%				
Harmonic attenuation rate	> 97% (for signature harmonic sp	pectrum)				
Overall efficiency (100% load)		≥ 95%					
Typical power losses	< 3% (dependi	ng on the load and opera	ting conditions)				
Reaction time*		< 50 µs					
Response time		< 5 ms					
Target PF	Ac	ljustable between – 1 +	- 1				
Control algorithm	FFT algorithm, intelligent FFT algorithm, instantaneous reactive algorithm						
Switching frequency	20 kHz						
Cooling mode (smart cooling)	342 L/s	359 L/s	359 L/s				
Noise level	< 65 dB						



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Active Harmonic Filter PQSine S

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Technical data and	specification 480 V / 600	V / 690 V (Based	on UL D	esign) ⁷				
Item	50 A	75 A		100 A				
Communication, Protection, Mor	nitoring, and Display							
Communication interface	RS485 / Network interfa	ce (RJ45)						
Communication protocol	Modbus protocol, TCP/I	Р						
Protective function for	Overvoltage, under volta protection, over tempera							
CT Monitoring alarm	available	available						
Fault alarm	Active and history of ala	Active and history of alarms available						
Display	 Rack mounted units do not include a built-in display. An additional 7 inch HMI display is necessary. Wall mounted units include a built-in 4.3-inch HMI display Floor mounted cabinets include a centralized 7-inch HMI display 							
Display parameters	Simultaneous display of Grid and Load side [Voltage, Current, Power Factor, Ithd%, Vthd%, Active, Reactive and Apparent Power] Compensation current of AHF in absolute values and %							
Physical Characteristics								
Mounting	Rack, Wall and Floor Mo		<u> </u>					
Net weight (wall / rack module)	40 kg	70 kg		70 kg				
Color	Light gray, cabinet RAL	7035						
Environmental requirement Altitude	≤ 1500 m, between 150 standard GB/T3859.2, p							
Operating temperature	-10 °C + 50 °C ⁸ (Unit's output will be de	rated if inlet tempe	rature of	air is > 40 °C)				
Relative humidity	95 %, non-condensing							
Protection class	IP20, customized IP clas	sses available upo	n request					
Storage temperature	- 40 °C + 70 °C							
Certifications, Compliances, Ref	erence Standards							
Certifications	CE							
Compliances / Reference Standards	LV Directive 2014/35/EU EU Directive 2011/65/EU EMC Directive 2014/30/	U RoHS	EN 6100	7-1:2012 / A11:2014 0-6-4:2007 / A1:201 0-6-2:2005				

⁸ For derating details reach out to TDK representative for further details

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⁷ UL Approval Pending

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Characteristics and ordering codes

Туре	Rated filter	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.)	Ordering code
	current A			(W x D x H) mm			
Rack mounted units	3	•	1	1	•		
PQSM3050S400	50	384	552	Rack	40	500 x 540 x 180	B44066F3050S400
PQSM3075S400	75	384	552	Rack	70	500 x 675 x 250	B44066F3075S400
PQSM3100S400	100	384	552	Rack	70	500 x 675 x 250	B44066F3100S400
Wall mounted units4			•	•	•	•	•
PQSW3050S444	50	384	552	Wall	40	500 x 184 x 627	B44066F3050S444
PQSW3075S444	75	384	552	Wall	70	500 x 250 x 723	B44066F3075S444
PQSW3100S444	100	384	552	Wall	70	500 x 250 x 723	B44066F3100S444
Floor mounted cabin	nets ⁵						
PQSF3100S435	100	384	552	Floor	320	800 x 1000 x 2200	B44066F3100S435
PQSF3150S435	150	384	552	Floor	360	800 x 1000 x 2200	B44066F3150S435
PQSF3200S435	200	384	552	Floor	390	800 x 1000 x 2200	B44066F3200S435
PQSF3250S435	250	384	552	Floor	430	800 x 1000 x 2200	B44066F3250S435
PQSF3300S435	300	384	552	Floor	460	800 x 1000 x 2200	B44066F3300S435
PQSF3350S435	350	384	552	Floor	500	800 x 1000 x 2200	B44066F3350S435
PQSF3400S435	400	384	552	Floor	530	800 x 1000 x 2200	B44066F3400S435

Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code	
	Α	V	V		kg	mm		
Rack mounted units	3		•					
PQSM4050S400	50	384	552	Rack	40	500 x 540 x 180	B44066F4050S400	
PQSM4075S400	75	384	552	Rack	70	500 x 675 x 250	B44066F4075S400	
PQSM4100S400	100	384	552	Rack	70	500 x 675 x 250	B44066F4100S400	
Wall mounted units4	<u> </u>		1	1	1	1	•	
PQSW4050S444	50	384	552	Wall	40	500 x 184 x 627	B44066F4050S444	
PQSW4075S444	75	384	552	Wall	70	500 x 250 x 723	B44066F4075S444	
PQSW4100S444	100	384	552	Wall	70	500 x 250 x 723	B44066F4100S444	
Floor mounted cabin	nets ⁵	•	•	•	•	•	•	
PQSF4100S435	100	384	552	Floor	320	800 x 1000 x 2200	B44066F4100S435	
PQSF4150S435	150	384	552	Floor	360	800 x 1000 x 2200	B44066F4150S435	
PQSF4200S435	200	384	552	Floor	390	800 x 1000 x 2200	B44066F4200S435	
PQSF4250S435	250	384	552	Floor	430	800 x 1000 x 2200	B44066F4250S435	
PQSF4300S435	300	384	552	Floor	460	800 x 1000 x 2200	B44066F4300S435	
PQSF4350S435	350	384	552	Floor	500	800 x 1000 x 2200	B44066F4350S435	
PQSF4400S435	400	384	552	Floor	530	800 x 1000 x 2200	B44066F4400S435	

³ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

⁴ Wall mounted units include a built-in 4.3-inch HMI display

⁵ Floor mounted cabinets include a 7-inch HMI display

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Active Harmonic Filter PQSine S

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code	
	A	٧	V		kg	mm		
Rack mounted units	3	•	•	•	•			
PQSM3050S600	50	420	690	Rack	40	500 x 540 x 180	B44066F3050S600	
PQSM3075S600	75	420	690	Rack	70	500 x 675 x 250	B44066F3075S600	
PQSM3100S600	100	420	690	Rack	70	500 x 675 x 250	B44066F3100S600	
Wall mounted units ⁴	ļ	· ·	1	1	1	1	•	
PQSW3050S644	50	420	690	Wall	40	500 x 184 x 627	B44066F3050S644	
PQSW3075S644	75	420	690	Wall	70	500 x 250 x 723	B44066F3075S644	
PQSW3100S644	100	420	690	Wall	70	500 x 250 x 723	B44066F3100S644	
Floor mounted cabin	nets ⁵							
PQSF3100S635	100	420	690	Floor	320	800 x 1000 x 2200	B44066F3100S635	
PQSF3150S635	150	420	690	Floor	360	800 x 1000 x 2200	B44066F3150S635	
PQSF3200S635	200	420	690	Floor	390	800 x 1000 x 2200	B44066F3200S635	
PQSF3250S635	250	420	690	Floor	430	800 x 1000 x 2200	B44066F3250S635	
PQSF3300S635	300	420	690	Floor	460	800 x 1000 x 2200	B44066F3300S635	
PQSF3350S635	350	420	690	Floor	500	800 x 1000 x 2200	B44066F3350S635	
PQSF3400S635	400	420	690	Floor	530	800 x 1000 x 2200	B44066F3400S635	

Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code	
	Α	V	V		kg	mm		
Rack mounted units	3							
PQSM4050S600	50	420	690	Rack	40	500 x 540 x 180	B44066F4050S600	
PQSM4075S600	75	420	690	Rack	70	500 x 675 x 250	B44066F4075S600	
PQSM4100S600	100	420	690	Rack	70	500 x 675 x 250	B44066F4100S600	
Wall mounted units ⁴	. '	U		•				
PQSW4050S644	50	420	690	Wall	40	500 x 184 x 627	B44066F4050S644	
PQSW4075S644	75	420	690	Wall	70	500 x 250 x 723	B44066F4075S644	
PQSW4100S644	100	420	690	Wall	70	500 x 250 x 723	B44066F4100S644	
Floor mounted cabin	nets ⁵		•					
PQSF4100S635	100	420	690	Floor	320	800 x 1000 x 2200	B44066F4100S635	
PQSF4150S635	150	420	690	Floor	360	800 x 1000 x 2200	B44066F4150S635	
PQSF4200S635	200	420	690	Floor	390	800 x 1000 x 2200	B44066F4200S635	
PQSF4250S635	250	420	690	Floor	430	800 x 1000 x 2200	B44066F4250S635	
PQSF4300S635	300	420	690	Floor	460	800 x 1000 x 2200	B44066F4300S635	
PQSF4350S635	350	420	690	Floor	500	800 x 1000 x 2200	B44066F4350S635	
PQSF4400S635	400	420	690	Floor	530	800 x 1000 x 2200	B44066F4400S635	

 $^{^3}$ Rack mounted units do not include a built-in display. An additional 7-inch HMI display is necessary

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⁴ Wall mounted units include a built-in 4.3-inch HMI display

⁵ Floor mounted cabinets include a 7-inch HMI display

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Active Harmonic Filter PQSine S

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code	
	Α	V	V		kg	mm ′		
Rack mounted units	3	•	•	•	•			
PQSM3050S700	50	483	793	Rack	40	500 x 540 x 180	B44066F3050S700	
PQSM3075S700	75	483	793	Rack	70	500 x 675 x 250	B44066F3075S700	
PQSM3100S700	100	483	793	Rack	70	500 x 675 x 250	B44066F3100S700	
Wall mounted units ⁴	'			1		•		
PQSW3050S744	50	483	793	Wall	40	500 x 184 x 627	B44066F3050S744	
PQSW3075S744	75	483	793	Wall	70	500 x 250 x 723	B44066F3075S744	
PQSW3100S744	100	483	793	Wall	70	500 x 250 x 723	B44066F3100S744	
Floor mounted cabin	nets ⁵							
PQSF3100S735	100	483	793	Floor	320	800 x 1000 x 2200	B44066F3100S735	
PQSF3150S735	150	483	793	Floor	360	800 x 1000 x 2200	B44066F3150S735	
PQSF3200S735	200	483	793	Floor	390	800 x 1000 x 2200	B44066F3200S735	
PQSF3250S735	250	483	793	Floor	430	800 x 1000 x 2200	B44066F3250S735	
PQSF3300S735	300	483	793	Floor	460	800 x 1000 x 2200	B44066F3300S735	
PQSF3350S735	350	483	793	Floor	500	800 x 1000 x 2200	B44066F3350S735	
PQSF3400S735	400	483	793	Floor	530	800 x 1000 x 2200	B44066F3400S735	

T	Datad	Valtaria	Valtana	Manustina	Mainle4	Dimensions	Oudening sed:	
Туре	Rated filter current	Voltage (min)	Voltage (max)	Mounting variant	Weight (approx.)	Dimensions (approx.) (W x D x H)	Ordering code	
	Α	V	V		kg	mm		
Rack mounted units	3	•	•	•	•			
PQSM4050S700	50	483	793	Rack	40	500 x 540 x 180	B44066F4050S700	
PQSM4075S700	75	483	793	Rack	70	500 x 675 x 250	B44066F4075S700	
PQSM4100S700	100	483	793	Rack	70	500 x 675 x 250	B44066F4100S700	
Wall mounted units ⁴			11	•				
PQSW4050S744	50	483	793	Wall	40	500 x 184 x 627	B44066F4050S744	
PQSW4075S744	75	483	793	Wall	70	500 x 250 x 723	B44066F4075S744	
PQSW4100S744	100	483	793	Wall	70	500 x 250 x 723	B44066F4100S744	
Floor mounted cabir	nets ⁵							
PQSF4100S735	100	483	793	Floor	320	800 x 1000 x 2200	B44066F4100S735	
PQSF4150S735	150	483	793	Floor	360	800 x 1000 x 2200	B44066F4150S735	
PQSF4200S735	200	483	793	Floor	390	800 x 1000 x 2200	B44066F4200S735	
PQSF4250S735	250	483	793	Floor	430	800 x 1000 x 2200	B44066F4250S735	
PQSF4300S735	300	483	793	Floor	460	800 x 1000 x 2200	B44066F4300S735	
PQSF4350S735	350	483	793	Floor	500	800 x 1000 x 2200	B44066F4350S735	
PQSF4400S735	400	483	793	Floor	530	800 x 1000 x 2200	B44066F4400S735	

³ Rack mounted units do not include a built-in display. An additional 7 inch HMI display is necessary

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⁴ Wall mounted units include a built-in 4.3-inch HMI display

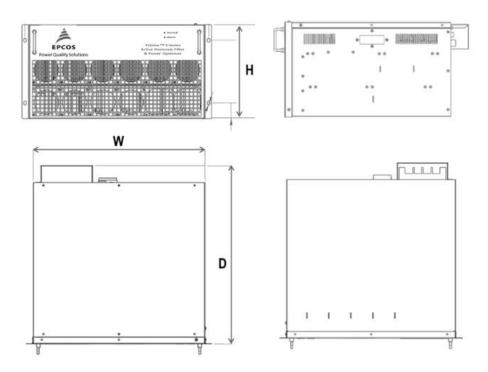
⁵ Floor mounted cabinets include a 7-inch HMI display



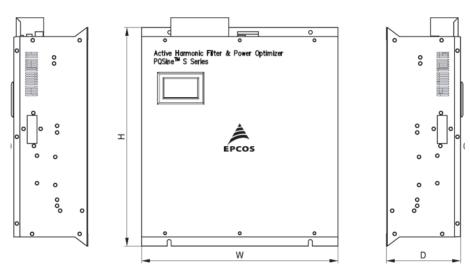
3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Dimensional drawings

a) Rack modules



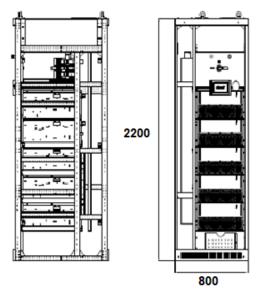
b) Wall modules

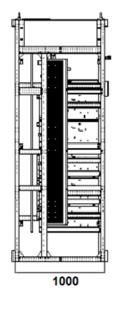


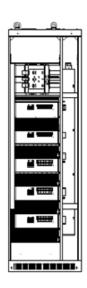


3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

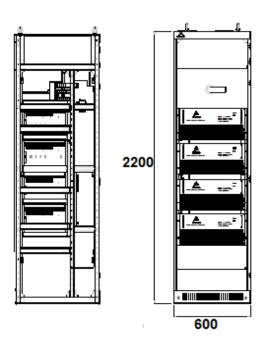
c) Cabinet with 800 mm width

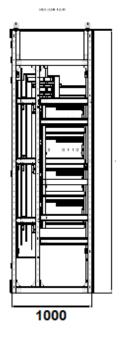


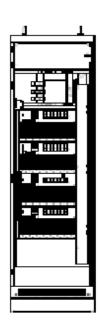




d) Cabinet with 600 mm width

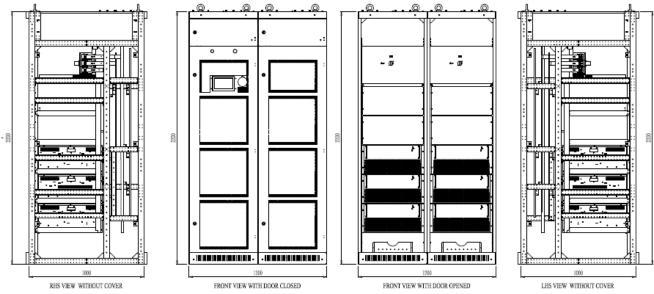






3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

e) Multicabinet drawings (1200 mm / 1600 mm width) *



^{*}For all the cabinets the default cable entry is from top, however bottom cable entry can also be possible on special request
The standard cabinet installation should have a minimum clearance of 600mm at front and rear side in order to ensure uninterrupted air flow
and proper ventilation. The module arrangement in all the cabinet pictures above is a sample representation of how the rack modules are
arranged inside. The actual design depends on the number of module inside each respective cabinets.

Selection of cable and accessories

Rated current	25 A 35 A	50 A 60 A	75 A 90 A 100 A	150 A	200 A 250 A	300 A 350 A	400 A	450 A	500 A	550 A	600 A
Power terminal screw	M6	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8
PE terminal screw	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6
Rated current of Breaker	50 A	80 A	120 A	200 A	300 A	400 A	630 A	630 A	630 A	630 A	800 A
CT cable		Below 15 m: RVVSP 2 * 2.5 mm²; 15 30 m: RVVSP 2 * 4 mm²; above 30 m: contact TDK Recommended twisted pair cable, do not install in parallel with power cable in order to avoid									
Range of CT ratio					15	50/5 100	000/5				
CT accuracy class			0.5 or bett	er (open lo	oop/load si	ide) and 0.	2 or better	closed loc	p/grid side	e)	
CT output power		Minimum 5 VA									
Quantity of CTs				2 CT u	units for 3F	3W and 3	CT units f	or 3P4W			

Remarks:

- 1. The cable size selection of N phase should be capable of carrying up to 3 times to phase if the zero-sequence harmonic as a main part of total harmonic current.
- 2. The CT rated primary current should be 1.5 to 4 times of the maximum load current and rated secondary current should be 5 A.
- 3. The rated current selection of breaker should be 1.2 to 2 times of the AHF rated capability.
- 4. For all specific information about the cable, breaker, CT selection, which is not included in the table, please contact TDK Electronics.

Note: Current transformers are not included in the delivery and must be purchased separately

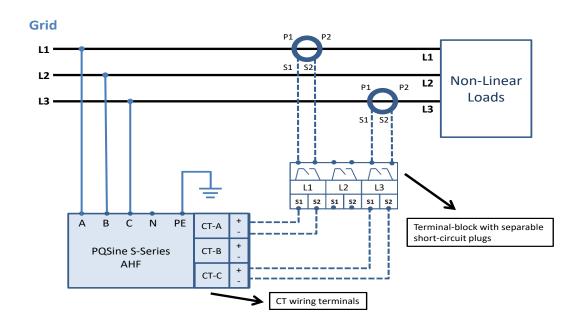
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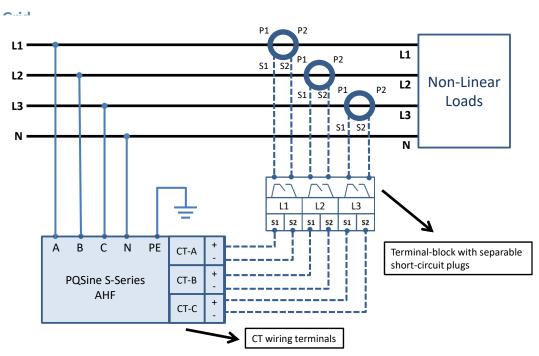
3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Connection diagram

a) 3P3W



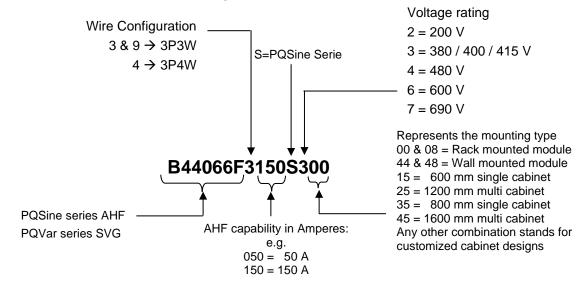
b) 3P4W



Note: Current transformers are not included in the delivery and must be purchased separately

3P3W & 3P4W Rack/Wall/Floor Mounted / PQS*S

Ordering code nomenclature and decoding table



Display of ordering codes for TDK Electronics products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications, on the company website, or in order-related documents such as shipping notes, order confirmations and product labels. The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products. Detailed information can be found on the Internet under www.tdk-electronics.tdk.com/orderingcodes.



Cautions and Warnings

- Please also read and follow the cautions and warnings in the AHF S-series operating and installation instruction manual
- The active harmonic filter (AHF) is applicable to industrial occasion, in parallel connection with harmonic source in power grid and serving the purpose of harmonic suppression.
- Please ensure that no power-factor compensation systems, **which are not de-tuned**, are connected to the same grid. Otherwise, interactions between the AHF and the compensation systems could occur.

HIGH VOLTAGE: Risk of death due to short circuits and electric shock if the active filter is opened while connected to the AC mains or for up to 30 minutes after being disconnected.

- All interventions involving opening the device cover, removing or installing the connection cable may only be performed by qualified personnel.
- Make sure the filter is grounded. Good grounding is required to prevent any risk from leakage current.
- Keep away from liquids.
- Avoid exposure to excessive humidity.
- Switch off the power before removing or opening the covers/doors.
- Installation of the active filter, inspections for proper operation, and certain troubleshooting measures may only be performed by qualified personnel. All other measures may be performed by people who have read these instructions.
- All AHF must be installed in a clean, dry location, e.g. in sufficiently ventilated or air-conditioned electric cabinets or closed electric rooms.
- Contaminants such as oils, liquids, corrosive vapors, abrasive debris, dust and aggressive gases must be kept out of the filter enclosure.

Conductive dust may cause damage to AHF. Ensure that installation site of AHF is free of conductive dust.

- The AHF is used to compensate reactive power, so AHF capacity should be considered in accordance with harmonic content. Insufficient capacity affects the performance of compensation.
 - For AHF to compensate, external CTs are required to detect the current.
 - To ensure AHF has good reliability and to avoid overheating, do not block or cover the air inlet/outlet
 - Make sure that no corrosive gas and conductive dust exist in work environment and that the working temperature is ranged between -10 °C and +40 °C. AHF current will start to derate if operated outside this temperature range.
 - User needs to specify it particularly when grid voltage distortion rate is higher than 15% so that the
 possibility of other alternate/add on solutions can be discussed.
 - The ventilation clearance requirement varies from case to case, depending on the panel design, number of units in the panel, horizontal / vertical/ wall mounting etc. So please make sure to seek expert opinion on ventilation requirement needed for the selected solution. Sufficient ventilation should be provided to the modules/wall mounted units /cabinets! For the standard enclosure having horizontal modules mounted horizontally a minimum clearance of 600 mm should be allowed on the front and rear side of the enclosure
 - Seal the AHF in its original packing materials to avoid damage. If you don't install AHF immediately after you receive it, do store it in a dry, well-ventilated indoor environment. Make sure the temperature is between -40°C~70°C, and relative humidity between 5%~95%.

Important notes

The following applies to all products named in this publication:

- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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Important notes

8. The trade names EPCOS, CarXield, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, FilterCap, FormFit, InsuGate, LeaXield, MediPlas, MiniBlue, MiniCell, MKD, MKK, ModCap, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PiezoBrush, PlasmaBrush, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SurfIND, ThermoFuse, WindCap, XieldCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

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