

# COTEK



## QE/QP Series 75~155W Security Power Supply



QE-75/100



QE-155



QE-155F

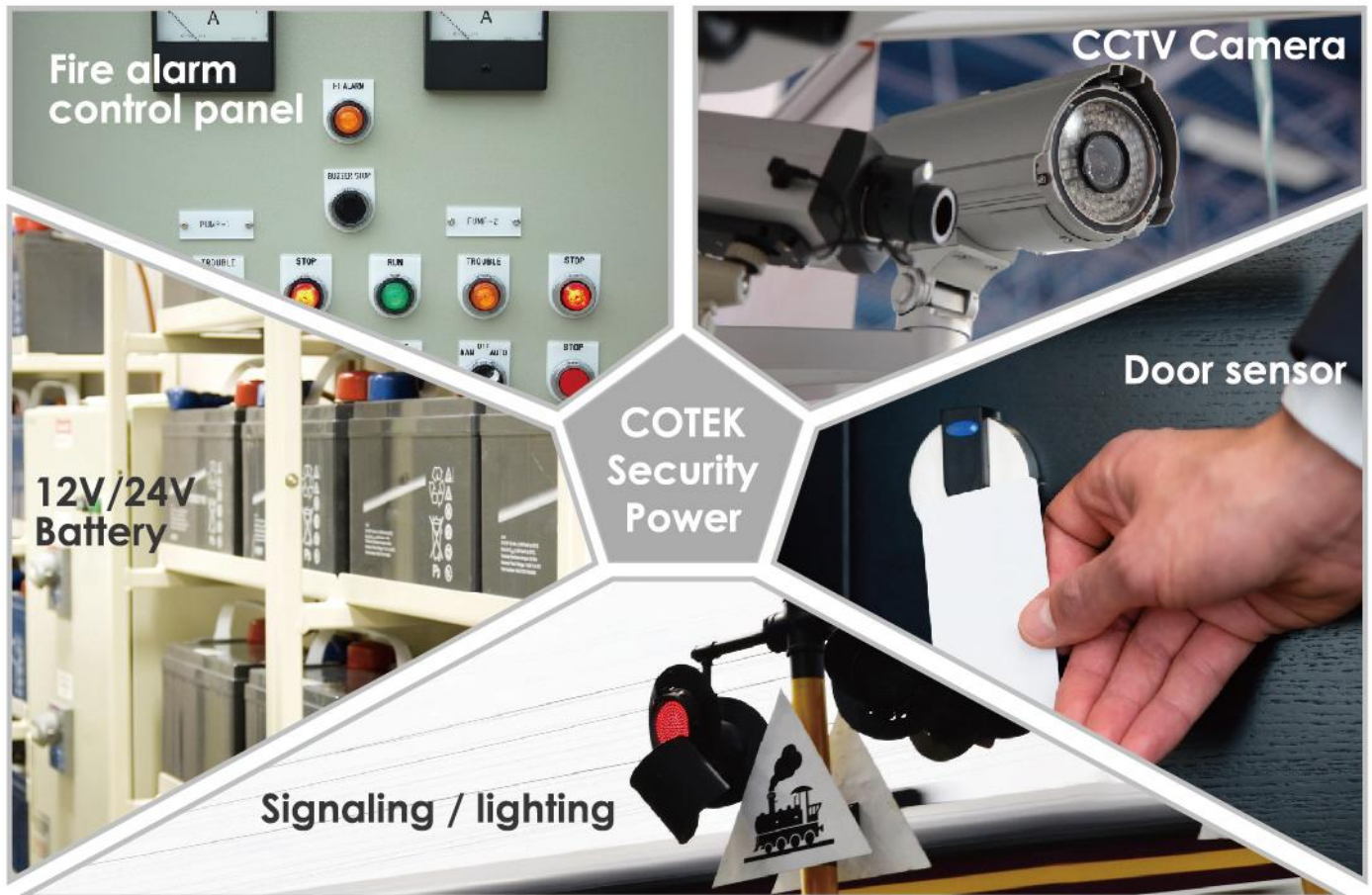


QP-75/100

- Compact size design
- Power auto switch
- Dual / triple outputs

- Build in battery charging function
- Battery polarity protection

# COTEK Security Power Applications

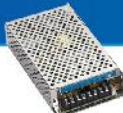
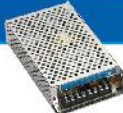


## Specification

### QE Series

75W ~155W 2&3 Outputs with Battery Charging Function



		QE-75-G			QE-75-GB			QE-75-L		QE-75-LB		
 <b>Output</b>	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3	
	DC Voltage	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V	
	Rated Current	3.7A	1.8A	2.6A	1.8A	3A	1.75A	1A	1.2A	1A	3A	
	Max. Output current	5.5A	2.07A	4.4A	2.07A	3A	2.75A	1.15A	2.2A	1.15A	3A	
	Ripple & Noise (Max.)	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	
	Voltage Adj. Range	CH1 : ±10%					CH1 : ±10%					
<b>Input</b>	Voltage Range	90~264VAC, 127~373VDC ( Withstand 300VAC surge for 5sec. Without damage. )										
	Efficiency (Typ.) at 230VAC	86%			85%			88%		87%		
	Inrush Current (Typ.)	Cold Start 35A / 115VAC, 70A / 230VAC										
		QE-100-G			QE-100-GB			QE-100-L		QE-100-LB		
 <b>Output</b>	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3	
	DC Voltage	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V	
	Rated Current	4.8A	2.5A	3.7A	2.5A	3A	2.15A	1.5A	1.6A	1.5A	3A	
	Max. Output current	7.3A	2.875A	6.2A	2.875A	3A	3.65A	1.725A	3.1A	1.725A	3A	
	Ripple & Noise (Max.)	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	
	Voltage Adj. Range	CH1 : ±10%					CH1 : ±10%					
<b>Input</b>	Voltage Range	90~264VAC, 127~373VDC ( Withstand 300VAC surge for 5sec. Without damage. )										
	Efficiency (Typ.) at 230VAC	86%			85%			87%		85%		
	Inrush Current (Typ.)	Cold Start 35A / 115VAC, 70A / 230VAC										



# User Benefits



## UPS function

Automatic switch to battery when AC fail



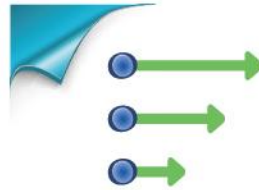
## Battery low protection

Extend the devices running time



## Universal AC input

Worldwide usage



## 2 & 3 Outputs voltage design

Various security device applications



## LED indicator

Indicate AC and battery low



# Always Power Ready

# QE Series

## 75W ~155W 2&3 Outputs with Battery Charging Function



Model		QE-155-G		QE-155-GB			QE-155-L		QE-155-LB			
Output	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3	
	DC Voltage	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V	
	Rated Current	7.5A	3.7A	6.4A	3.7A	3A	3.6A	2A	3.1A	2A	3A	
	Max. Output current	11.2A	3.88A	10.1A	3.88A	3A	5.6A	2.1A	5.1A	2.1A	3A	
	Ripple & Noise (Max.)	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	
	Voltage Adj. Range	CH1 : ±10%					CH1 : ±10%					
Input	Voltage Range	90~264VAC, 127~373VDC ( Withstand 300VAC surge for 5sec. Without damage. )										
	Efficiency (Typ.) at 230VAC	86%			85%			86%		85%		
	Inrush Current (Typ.)	Cold Start 55A / 115VAC, 108A / 230VAC										

Model		QE-155F-G		QE-155F-GB			QE-155F-L		QE-155F-LB			
Output	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3	
	DC Voltage	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V	
	Rated Current	7.5A	3.7A	6.4A	3.7A	3A	3.6A	2A	3.1A	2A	3A	
	Max. Output current	11.2A	3.88A	10.1A	3.88A	3A	5.6A	2.1A	5.1A	2.1A	3A	
	Ripple & Noise (Max.)	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	
	Voltage Adj. Range	CH1 : ±10%					CH1 : ±10%					
Input	Voltage Range	90~264VAC, 127~373VDC ( Withstand 300VAC surge for 5sec. Without damage. )										
	Efficiency (Typ.) at 230VAC	86%			85%			86%		85%		
	Inrush Current (Typ.)	Cold Start 55A / 115VAC, 108A / 230VAC										

Model		QE-75-G/GB	QE-75-L/LB	QE-100-G/GB	QE-100-L/LB	QE-155-G/GB	QE-155-L/LB	QE-155F-G/GB	QE-155F-L/LB	
Protection	Over Load	Above 110% rated output power CH1 / CH3 (GB / LB only)								
		Above 100% rated output current for CH2								
		Protection Type : Hiccup mode, recovers automatically after fault condition is remove								
	Over Voltage	CH1 : 115~150% rated output voltage								
Protection Type : latch-off mode										
Battery cut off	10V ± 5%	20V ± 5%	10V ± 5%	20V ± 5%	10V ± 4%	20V ± 5%	10V ± 4%	20V ± 5%		
Function	AC OK	QE-75-G/L: TTL open collector output			QE-100-G/L: TTL open collector output			QE-155-G/L: TTL open collector output		QE-155F-G/L: TTL open collector output
		QE-75-GB/LB: Relay contact output			QE-100-GB/LB: Relay contact output			QE-155-GB/LB: Relay contact output		QE-155F-GB/LB: Relay contact output
	Battery Low Voltage	< 12V ± 3%	< 22V ± 3%	< 12V ± 3%	< 22V ± 3%	< 12V ± 3%	< 22V ± 3%	< 12V ± 3%	< 22V ± 3%	
Environment	Working Temperature	-20~+70°C (Refer to output load de-rating curve)								
	Working Humidity	20~90% RH non-condensing								
	Storage Temp. & Humidity	-40~+85°C, 20~90% RH					-40~+85°C, 10~90% RH			
	Temperature Coefficient	± 0.03% / °C ( 0°C~50°C ) on CH1								
	Vibration	10~500Hz, 2G 10min. / 1 cycle, period for 60min. each along X, Y, Z axes								
Safety & EMC	Safety Standards	Certified UL 60950-1; EN 60950-1								
	Withstand Voltage	I/P-O/P : 3KVAC, I/P-FG : 1.5KVAC, O/P-FG : 0.5KVAC								
	Isolation Resistance	I/P-O/P : 100M Ohms / 500VDC								
	EMI Conduction & Radiation	Certified EN 55022 class B; EN 61000-6-3								
	Power Harmonic & Voltage Fluctuation and Flicker	Certified EN 61000-3-2; EN 61000-3-3								
	EMS Immunity	Certified IEC 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204; EN 55024; EN 61204-3, EN 61000-6-1								
Other Information	Dimension (WxHxD)	98x38x130 mm				98x38x179 mm		98x56x179 mm		
	Packing	0.46kg; 21pcs / 10.66kg / 0.64CUFT				0.64kg; 24pcs / 15.36kg / 1.29CUFT		0.68kg; 24pcs / 16.32kg / 1.29CUFT		



• Subject to change without prior notice



# QP Series

## 75W / 100W 2&3 Outputs with Battery Charging Function



Model		QP-75-G		QP-75-GB			QP-75-L		QP-75-LB		
 Output	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3
	DC Voltage	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V
	Rated Current	3.7A	1.8A	2.6A	1.8A	3A	1.75A	1A	1.2A	1A	3A
	Max. Output current	5.5A	2.07A	4.4A	2.07A	3A	2.75A	1.15A	2.2A	1.15A	3A
	Ripple & Noise (Max.)	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p
	Voltage Adj. Range	CH1 : ±10%					CH1 : ±10%				
Input	Voltage Range	90~264VAC, 127~373VDC ( Withstand 300VAC surge for 5sec. Without damage. )									
	Efficiency (Typ.) at 230VAC	86%		85%			88%		87%		
	Inrush Current (Typ.)	Cold Start 35A / 115VAC, 70A / 230VAC									
Model		QP-100-G		QP-100-GB			QP-100-L		QP-100-LB		
 Output	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3
	DC Voltage	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V
	Rated Current	4.8A	2.5A	3.7A	2.5A	3A	2.15A	1.5A	1.6A	1.5A	3A
	Max. Output current	7.3A	2.875A	6.2A	2.875A	3A	3.65A	1.725A	3.1A	1.725A	3A
	Ripple & Noise (Max.)	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	100mVp-p
	Voltage Adj. Range	CH1 : ±10%					CH1 : ±10%				
Input	Voltage Range	90~264VAC, 127~373VDC ( Withstand 300VAC surge for 5sec. Without damage. )									
	Efficiency (Typ.) at 230VAC	86%		85%			87%		85%		
	Inrush Current (Typ.)	Cold Start 35A / 115VAC, 70A / 230VAC									

Model		QP-75-G/GB		QP-75-L/LB		QP-100-G/GB		QP-100-L/LB		
Protection	Over Load	Above 110% rated output power CH1 / CH3 (GB / LB only)								
		Above 100% rated output current for CH2								
		Protection Type : Hiccup mode, recovers automatically after fault condition is remove								
Over Voltage	CH1 : 115~150% rated output voltage									
	Protection Type : latch-off mode									
Battery cut off	10V ± 5%		20V ± 5%		10V ± 5%		20V ± 5%			
Function	AC OK	QP-75-G / L: TTL open collector output QP-75-GB / LB: Relay contact output				QP-100-G / L: TTL open collector output QP-100-GB / LB: Relay contact output				
	Battery Low Voltage	< 12V ± 3%		< 22V ± 3%		< 12V ± 3%		< 22V ± 3%		
Environment	Working Temperature	-20~+70°C (Refer to output load de-rating curve)								
	Working Humidity	20~90% RH non-condensing								
	Storage Temp. & Humidity	-40~+85°C, 10~90% RH								
	Temperature Coefficient	± 0.03% / °C ( 0°C~50°C ) on CH1								
Vibration	10~500Hz, 2G 10min. / 1 cycle, period for 60min. each along X, Y, Z axes									
Safety & EMC	Safety Standards	Certified UL 60950-1; EN 60950-1								
	Withstand Voltage	I/P-O/P : 3KVAC, I/P-FG : 1.5KVAC, O/P-FG : 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG : 100M Ohms / 500VDC								
	EMI Conduction & Radiation	Certified EN 55022 class B; EN 61000-6-3								
	Power Harmonic & Voltage Fluctuation and Flicker	Certified EN 61000-3-2; EN 61000-3-3								
EMS Immunity	Certified IEC 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204; EN 55024; EN 61204-3, EN 61000-6-1									
Other Information	Dimension (WxHxD)	95x31x123 mm								
	Packing	0.32kg; 21pcs / 7.72kg / 0.64CUFT								

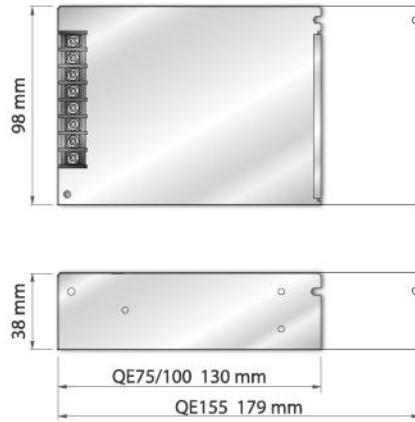
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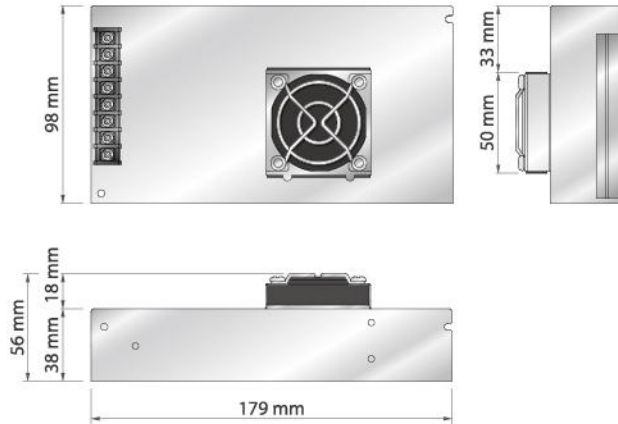
# Dimension

## QE Series

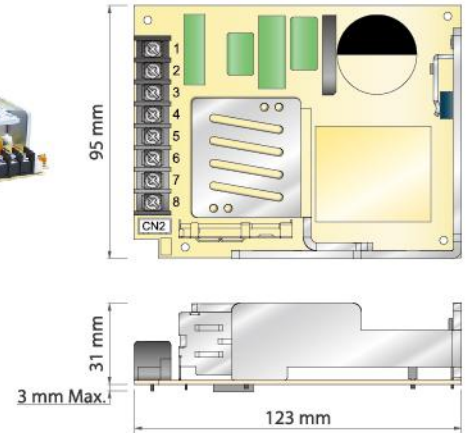
QE75/100/155



QE155F



## QP Series



## About COTEK



COTEK is committed to providing proactive service, innovative technology and total quality assurance since we were established in 1986. With Corporate Offices in Tao-yuan, Taiwan, COTEK is a technology-oriented company focusing on developing, designing and manufacturing products including:

- AC/DC Switching Mode Power Supply-5 Watts ~ 3,000 Watts
- LED Driver
- DC/AC Pure Sine Wave inverter-150 Watts ~ 4,000 Watts
- Inverter/Charger
- Battery Charger

### Contact Us

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