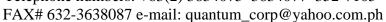
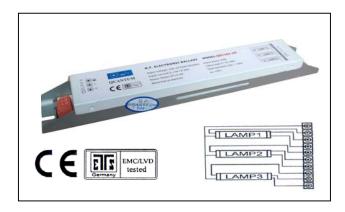


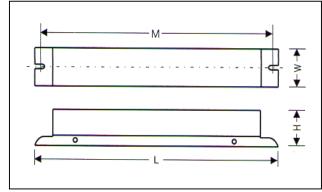
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⁷ebsite: URL: http://www.quantumelectronicscorporation.yolasite.com





QEC183-HP Auto-Volt High Performance Electronic Ballast

STANDARD FEATURES

HOUSING

- □ Electro-galvanized steel with epoxy powder paint coating
- □ Screw-less terminal block
- Compact and low profile

REFERENCE STANDARD

- □ *IEC*928
- □ IEC929
- □ *IEC555.2*

PRODUCT CLASSIFICATION

- Commercial Grade
- □ Low Harmonic Distortion Class

COMPACT DIMENSION

□ 276mm (L) x 40mm (W) x 28mm (H)

PRODUCT WARRANTY

- ☐ Three (3) Year for Parts
- □ Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

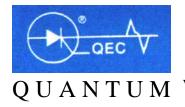
- □ Auto-Volt 110~277 VAC 50/60Hz
- □ Line Current _{RMS} 0.15A ~ 0.36A
- □ High Power Factor PF>0.99
- □ Low Harmonic Distortion $A_{THD} < 10\%$
- □ Total Input Power P_t ≤ 54 Watts
- □ Crest Factor ACF < 1.7
- Sound Rating A
- □ Case Temperature t_c < 70°C</p>

SPECIAL FEATURES

- Rapid Start wiring
- Operational from one lamp to three lamps
- Abnormal protection feature
- □ SMD design for minimum discrete components

LINEAR LOAD

- □ T8 18W x 3 FL
- □ T12 20W x 3 FL



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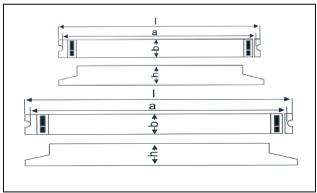


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Website: URL: http://www.quantumelectronicscorporation.yolasite.com



QEC281-LC and QEC282-LC Energy Efficient HF Electronic Ballast







STANDARD FEATURES

HOUSING

- Electro-galvanized steel with powder paint coating
- □ Screw-less terminal block
- □ Compact and low profile casing

REFERENCE STANDARD

- □ EN60928
- □ EN60929
- □ EN61000-3-2

PRODUCT WARRANTY

- □ Three (3) Years for Parts
- □ Lifetime Free Service

ELECTRICAL FEATURES

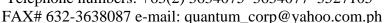
COMMON ELECTRICAL PARAMETERS

- □ 220~240 VAC 50/60Hz
- □ Input Voltage range 180 ~ 264 VAC
- ☐ High Power Factor PF > 0.97
- □ Current Crest Factor ACF < 1.7
- □ Low Harmonic Distortion $A_{THD} < 10\%$
- Equipped with safety fuse against shortcircuit or end-of-life condition
- No stroboscopic effect
- Sound Rated A
- Suitable for operation with emergency battery back-up
- □ Maximum case temperature t_C < 70°C

MODEL	Unit	QEC281-LC	QEC282-LC		
Lamp Type	Ø	T8/T5 - 28w*1	T8/T5 - 28w*2		
Input Current	A _{RMS}	0.14 ± 10%	0.28 ± 10%		
Power Consumption	Watts	32	64		
Dimensions (a, b, h)	mm	270 x 28 x 27	360 x 28 x 27		
Suggested Retail Price	Peso	561.00	663.00		



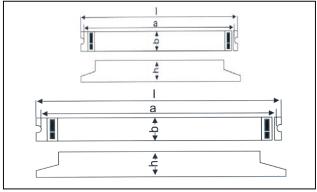
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QEC321-LC and QEC322-LC Energy Efficient HF Electronic Ballast





STANDARD FEATURES

HOUSING

- Electro-galvanized steel with powder paint coating
- □ Screw-less terminal block
- Compact and low profile casing

REFERENCE STANDARD

- □ EN60928
- □ EN60929
- □ EN61000-3-2

PRODUCT WARRANTY

- □ Three (3) Years for Parts
- □ Lifetime Free Service

ELECTRICAL FEATURES

COMMON ELECTRICAL PARAMETERS

- □ 220~240 VAC 50/60Hz
- □ Input Voltage range 180 ~ 264 VAC
- ☐ High Power Factor PF > 0.97
- □ Current Crest Factor ACF < 1.7
- □ Low Harmonic Distortion $A_{THD} < 10\%$
- Equipped with safety fuse against shortcircuit or end-of-life condition
- No stroboscopic effect
- Sound Rated A
- Suitable for operation with emergency battery back-up
- ☐ Maximum case temperature t_C < 70°C
 </p>

MODEL	Unit	QEC321-LC	QEC322-LC T8 - 32w*2	
Lamp Type	Ø	T8 - 32w*1		
Input Current	A _{RMS}	0.13 ± 10%	0.28 ± 10%	
Power Consumption	Watts	32	64	
Dimensions (a, b, h)	mm	260 x 40 x 33	327 x 40 x 33	
Suggested Retail Price	Peso	561.00	663.00	



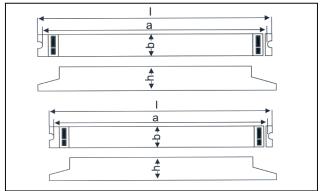
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QEC401-HP and QEC402-HP AV SERIES Energy Efficient HF Electronic Ballast





STANDARD FEATURES

HOUSING

- □ Electro-galvanized steel with powder paint coating
- □ Screw-less terminal block
- Compact and low profile casing

REFERENCE STANDARD

- □ EN60928
- □ EN60929
- □ EN61000-3-2

PRODUCT WARRANTY

- □ Three (3) Years for Parts
- □ Lifetime Free Service

ELECTRICAL FEATURES

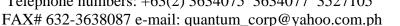
COMMON ELECTRICAL PARAMETERS

- □ 110 ~ 277 VAC 50/60Hz
- □ Power MOSFET technology
- ☐ High Power Factor PF > 0.99
- □ Current Crest Factor ACF < 1.7
- □ Low Harmonic Distortion A_{THD} < 10%
- Equipped with safety fuse against shortcircuit or end-of-life condition
- No stroboscopic effect
- Sound Rated A
- Suitable for operation with emergency battery back-up
- **High Performance Class**
- ☐ Maximum case temperature t_C < 70°C
 </p>

MODEL	Unit	QEC401-HP	QEC402-HP
Lamp Type	Ø	T8/T12 - 36/40w*1	T8/T12 - 36/40w*2
Input Current	A _{RMS}	0.12~0.18 ± 10%	0.27~0.34 ± 10%
Power Consumption	Watts	36 ~ 38	70 ~ 72
Dimensions (a, b, h)	mm	327 x 40 x 33	327 x 40 x 33
Suggested Retail Price	Peso	1,000.00	1,200.00



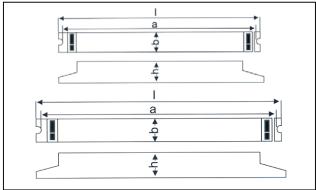
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QEC401-LC and QEC402-LC Energy Efficient HF Electronic Ballast





STANDARD FEATURES

HOUSING

- Electro-galvanized steel with powder paint coating
- □ Screw-less terminal block
- Compact and low profile casing

REFERENCE STANDARD

- □ EN60928
- □ EN60929
- □ EN61000-3-2

PRODUCT WARRANTY

- □ Three (3) Years for Parts
- □ Lifetime Free Service

ELECTRICAL FEATURES

COMMON ELECTRICAL PARAMETERS

- □ 220~240 VAC 50/60Hz
- □ Input Voltage range 180 ~ 264 VAC
- ☐ High Power Factor PF > 0.97
- □ Current Crest Factor ACF < 1.7
- □ Low Harmonic Distortion A_{THD} < 10%
- Equipped with safety fuse against shortcircuit or end-of-life condition
- No stroboscopic effect
- Sound Rated A
- Suitable for operation with emergency battery back-up
- \Box Maximum case temperature $t_C < 70^{\circ}C$

MODEL	Unit	QEC401-LC	QEC402-LC	
Lamp Type	Ø	T8/T12 - 36/40w*1	T8/T12 - 36/40w*2	
Input Current	A _{RMS}	0.16 ± 10%	0.32 ± 10%	
Power Consumption	Watts	36 ~ 38	70 ~ 72	
Dimensions (a, b, h)	mm	260 x 40 x 33	327 x 40 x 33	
Suggested Retail Price	Peso	561.00	663.00	



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Website: URL: http://www.quantumelectronics.com





LOW TEMPERATURE ELECTRONIC BALLAST

MODEL: IH1-UNV-232-T8

APPROVED FOR LAMPS:

1 OR 2 X F25T8, F32T8, F40T8

TYPE "HL"

ELECTRICAL DATA (230V APPLICATION)

INPUT VOLT: 230V ± 10%,	50/60Hz							
LAMP WATTS/TYPE	F25T8	F32T8	F40T8	F25T8	F32T8	F40T8		
LAMPS OPERATED	1	1	1	2	2	2		
INPUT POWER (W)	30	40	50	59	78	97		
LINE CURRENT (A)	0.14	0.18	0.22	0.26	0.34	0.43		
POWER FACTOR	> 0.9							
THD	< 10 %							
CURRENT CREST FACTOR		< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A (Non-Consumer)							
SOUND RATING		" A "						
BALLAST TYPE	PROGRAMMED PREHEAT START							
VOLTAGE TRANSIENTS	ANSI 62.41							
INPUT/PROTECTION	FUSE							
OUTPUT/PROTECTION	DEACTIVATED LAMP PROTECTION							
MIN. OPERATING TEMP	-30 °C (-22 °F)							
MAX. CASE TEMP	70 °C (158 ° F)							
TYPE	"CC"							
APPROVALS/CLASS	UL /cUL PENDING, CLASS " P ", 1 OUTDOOR							

