

100-200W

CQA Series

AC/DC

Features

- Wide range of input voltage
- Broadband noise filter of input
- Surge suppress circuit of input
- Comply with UL1950, IEC950 safety regulation
- Attractive outline design
- Terminal connection method
- Easy installation
- Fast dynamic response



Input Characteristic

Voltage Range	220 VAC	176-264 VAC
Reverse Protection		Connect Fuse Outside

Output Characteristic

Voltage Set-point Accuracy	$\pm 1\%$
Line Regulation	$\pm 0.2\%$
Load Regulation	$\pm 0.4\%$
Temperature Coefficient	$\pm 0.01\%/^{\circ}\text{C}$
Output Current Limiting	120%(Typ)
Dynamic Response	400 μs
Output Current	4-20A
Output Voltage	1.8-48V
Power	100-200W

General Characteristic

Switching Frequency	160-200	KHz
Isolation Resistance	200	M Ω
MTBF	>500000	h
Isolation Voltage		
Input-Output	>1500 VAC/1min	(Leak <5mA)
Input-Case	>1500 VAC/1min	(Leak <5mA)
Output-Case	>500	VDC/1min

Environmental Characteristics

Case Temperature	(Industry) -25 - +85 $^{\circ}\text{C}$ (Military I) -40 - +85 $^{\circ}\text{C}$ (Military II) -55 - +85 $^{\circ}\text{C}$
Storage Temperature	(Industry) -45 - +105 $^{\circ}\text{C}$ (Military) -55 - +105 $^{\circ}\text{C}$

Heat Characteristic

Cooling	Thermal Resistance
Breeze of Nature	0.94 $^{\circ}\text{C}/\text{W}$
0.5M/S	0.79 $^{\circ}\text{C}/\text{W}$
1M/S	0.59 $^{\circ}\text{C}/\text{W}$
1.5M/S	0.43 $^{\circ}\text{C}/\text{W}$
2M/S	0.36 $^{\circ}\text{C}/\text{W}$

Models

Input voltage (Vac)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
220	176-264	5	20	50	82%	CQA100W220S05
220	176-264	12	8.33	120	83%	CQA100W220S12
220	176-264	15	6.67	150	84%	CQA100W220S15
220	176-264	24	4.17	200	87%	CQA100W220S24
220	176-264	48	4.2	400	88%	CQA200W220S48
220	176-264	5	30	50	82%	CQA150W220S05
220	176-264	12	12.5	120	83%	CQA150W220S12
220	176-264	15	10	150	84%	CQA150W220S15

Only typical models listed. If you need other model, please contact us for costum models

Mechanical drawing and pin definition

