

CertaUPS C450R Technical Specification

Model	C450R-010-B	C450R-010-C	C450R-020-B	C450R-020-C	C450R-030-B	C450R-030-C
Capacity	1000VA / 1000W		2000VA / 2000W		3000VA / 3000W	
EFFICIENCY						
Line Mode	89%		93%			
ECO Mode	96%		97%			
INPUT						
Input Voltage Range	Optimize Battery Management (OBM)					
Frequency	50Hz / 60Hz					
Power Factor	>0.99					
THDI	<5%					
INPUT CONNECTION						
Socket	1x IEC C14		1x IEC C20			
OUTPUT						
Voltage Regulation (AC Mode)	200/208/220/230/240 VAC (derating 10% at 208V, derating 20% at 200V)					
Rated Frequency	50Hz / 60Hz					
Maximum Power Factor	PF = 1					
Voltage accuracy	±1%					
THDv	<1% linear load; <5% nonlinear load					
Transfer Time	0ms Online -> battery; 4ms Online -> bypass; 10ms ECO ->Inverter					
Waveform (batt. Mode)	Pure sine wave					

Crest Ratio	Max 3:1					
Overload Capacity	100%<load≤105% continuous. 105%< load ≤125% for 3 minutes. 125<load≤150% for 30 seconds >150% for 500ms					
OUTPUT CONNECTION						
Socket	1 main outlet group (with 4 x IEC C13) 1 programmable outlet group (with 4 x IEC C13)				1 main outlet group (with 1 x IEC C19 + 4 x IEC C13) 1 programmable outlet group (with 4 x IEC C13)	
Load Segment Control	1 programmable load segment control					
SHORT CIRCUIT CURRENT						
Bypass Mode	550A / 2.8ms			699A / 7ms		
Normal / Battery Mode	20A / 100ms		36A / 100ms		54A / 100ms	
BATTERY						
Voltage	36V		72V			
Maximum EBM quantity	4					
EBM Auto Detection	Yes					
Battery Hot Swappable	Yes					
CHARGER						
Charging Method	Optimize Battery Management (OBM)					
Charging Current	1.5A	8A	1.5A	8A	1.5A	8A
Recharge Time	3h to 90%	N/A	3h to 90%	N/A	3h to 90%	N/A
OTHER MODE						
CVCF	Yes (deterating to 60% load)					
HMI						
Display	Dot matrix LCD (optional segment LCD)					
Language	Multi-language					
USB	USB 2.0 with HID power device					

RS232	Yes (DB9)	
Dry in/out	1 programmable dry in; 1 programmable dry out	
RPO	Yes	
Intelligent Slot	Yes	
Network Card	Optional, NMC	
Modbus Card	Optional, CMC	
Dry Contactor Card	Optional, AS400	
Wireless Module	Optional	
IOT Ethernet Port	RJ45	
Monitoring Software	Winpower, CertaUPS Monitor App	
PHYSICAL PERFORMANCE		
Dimension (WxDxH) mm	438 x 445 x 85.5 (2U)	438 x 600 x 85.5 (2U)
IP Protection Level	IP20	
ENVIRONMENT		
Operating Temperature	0-40°C	
Relative Humidity	0-95%	
Operating Altitude	0-3000m (the load derating 1 % every up 100m @1000~3000m)	
Acoustic Noise	<45dB at front 1m	<50dB at front 1m
Certification	CE, IEC/EN 62040, UKCA	
EMS		
ESD	EC/EN 61000-4-2	
RS232	IEC/EN 61000-4-3	
EFT	IEC/EN 61000-4-4	
Surge	IEC/EN 61000-4-5	

ACCESSORIES	
Input Power Cable	Yes
Output Power Cable	Yes (For IEC models)
EBM Cable	Yes (in EBM)
USB Cable	Yes
Rail Kit	Included
Tower Feet	Yes
Rack Ears	Yes
Manual (English)	Yes

Contact CertaUPS: info@certaups.com