CumulusPower™
Technical Datasheet

centiel

MODEL	CAB-CP050-I080-A1 CAB-CP050-I240-A0 CAB-UR050-E-C0	CAB-CP100-E-A1 CAB-CP100-I320-B0 CAB-UR100-E-C1	CAB-CP150-E-A0	CAB-CP251-E-B0
GENERAL DATA				
Module Type	IM10/IM20/IM25	IM10/IM20/IM25	IM10/IM20/IM25	IM10/IM20/IM25
Nominal power per module [kVA=kW]	10/20/25	10/20/25	10/20/25	10/20/25
Max Power per Frame [kVA=kW]	50	100	150	250
Number of modules per frame	1-2	1-4	1-6	1-10
Max power per system [kVA=kW]	1500	1500	1500	1500
Connection Type	Bottom	Bottom	Bottom	Bottom
Topology/Technology	Online double conversion/DARA (Distributed Active-redundant Architecture)			
INPUT				
MAINS				
Input Wiring	3Ph+N+PE			
Rated Voltage	380/400/415Vac			
Voltage Range	For loads <100% (−25%, +20%) | <80% (−32.5%, +20%) | <60% (−35%, +20%)			
Input Frequency	40-70 Hz			
Total Harmonic Distortion	THDi<3% for linear load, THDi<5% for nonlinear load			
Input Power Factor	0.99			
BYPASS				
Input Wiring	3Ph+N+PE			
Rated Voltage	360/400/420 Vac			
Input Frequency	50/60 ±2/4% (selectable)			
BATTERY				
Rated Voltage	360-480 Vdc (the number of batteries can be selected)			
Internal Batteries (7/9Ah)	I080: 80 | I240: 240	**E** External I320: 320	**E** External	**E** External
Type	Lead-Acid/NiCad/Lithium			
Blocks [LA]/Cells[NicAd]	20-50 | IM20/IM25: 30-50			
Charger (Amp/module)	20			
OUTPUT				
INVERTER				
Output Wiring	3Ph+N+PE			
Voltage	380/400/415 Vac±1%			
Frequency	Tracking the bypass input (Online Mode)			
Waveform	Sine wave (THDv<1% for linear load | THDv<3% for non-linear load)			
Output Power Factor	1			
Efficiency	**97.1%**			
Overload Capacity	**Inverter 124% continuous** | 125% overload for 10 min | 150% overload for 1 min **Bypass** 135% overload for long term | <1000% overload for 100ms			
Short circuit capability	3 x IN			
BYPASS				
Efficiency	**99.4%**			
ENVIRONMENT				
Operating Temperature	0-40°C (No power derating)			
Storage Temperature	-40-70°C			
Relative Humidity	0%-95% (No condensing)			
Maximum Operating Altitude	1000 m. Above 1000 m, derating 1% for each additional 100 m			
Audible Noise	< 65dB			
OTHERS				
Dimensions (H x W x D) [mm]	1315x510x815 1980x510x815	1315x510x815 1980x730x815	1980x510x815	1980x730x815
Weight [Kg] withouth modules	125 180	107 225	148	210
Certifications	EN/IEC 62040-1 | EN/IEC 62040-2 | EN/IEC 62040-3 | CE | RoHS			
Communications	**Basic** RS485 | RS232 | 2 Dry Input. **Pro** Basic + Dry contacts | Ethernet | Bluetooth			

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MODEL	CAB-CP250-E-B0	CAB-CP300-E-B0 CAB-CP300T-E-B0	CAB-CP600-E-D0 CAB-CP600T-E-2B0
GENERAL DATA			
Module Type	IM50	IM50/IM60	IM50/IM60
Nominal power per module [kVA=kW]	50	50/60	50/60
Max Power per Frame [kVA=kW]	250	300	600
Number of modules per frame	1-5	1-5	1-10
Max power per system [kVA=kW]	3000	3600	3600
Connection Type	Bottom	Bottom / Top	Bottom / Top
Topology/Technology	Online double conversion/DARA (Distributed Active-redundant Architecture)		
INPUT			
MAINS			
Input Wiring	3Ph+N+PE		
Rated Voltage	380/400/415Vac		
Voltage Range	For loads <100% (−25%, +20%) | <80% (−32.5%, +20%) | <60% (−35%, +20%)		
Input Frequency	40-70 Hz		
Total Harmonic Distortion	THDi<3% for linear load, THDi<5% for nonlinear load		
Input Power Factor	0,99		
BYPASS			
Input Wiring	3Ph+N+PE		
Rated Voltage	360/400/420 Vac		
Input Frequency	50/60 ±2/4% (selectable)		
BATTERY			
Rated Voltage	360-480 Vdc (the number of batteries can be selected)		
Internal Batteries (7/9Ah)	**E** External		
Type	Lead-Acid/NiCad/Lithium		
Blocks [LA]/Cells[NicAd]	20-50 | IM50/IM60: 30-50		
Charger (Amp/module)			40
OUTPUT			
INVERTER			
Output Wiring	3Ph+N+PE		
Voltage	380/400/415 Vac±1%		
Frequency	Tracking the bypass input (Online Mode) | 50/60 Hz±0,05% (Battery Mode)		
Waveform	Sine wave (THDv<1% for linear load | THDv<3% for non-linear load)		
Output Power Factor	1		
Efficiency	**97.1%**		
Overload Capacity	**Inverter 124% continuous** | 125% overload for 10 min | 150% overload for 1 min **Bypass** 135% overload for long term | <1000% overload for 100ms		
Short circuit capability	3 x IN		
BYPASS			
Efficiency	**99.4%**		
ENVIRONMENT			
Operating Temperature	0-40°C (No power derating)		
Storage Temperature	-40-70°C		
Relative Humidity	0%-95% (No condensing)		
Maximum Operating Altitude	1000 m. Above 1000 m, derating 1% for each additional 100 m		
Audible Noise	< 65dB		
OTHERS			
Dimensions (H x W x D) [mm]	1980x730x845	1980x730x845	1980x1460x845
Weight [Kg] withouth modules	-	209	396
Certifications	EN/IEC 62040-1 | EN/IEC 62040-2 | EN/IEC 62040-3 | CE | RoHS		
Communications	**Basic** RS485 | RS232 | 2 Dry Input. **Pro** Basic + Dry contacts | Ethernet | Bluetooth		