INTRINSIC MANUFACTURING

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Flex Series Runtime Online UPS

MODULAR TYPE

Arena 2–2 LV 6K Backup Time

MODEL	Flex 1/1-10K	Flex 2/2-6K LV	Flex 3/3-10K LV
PHASE	1 phase in / 1 phase out	2 phase in / 2 phase out	3 phase in / 3 phase out
CAPACITY	10000 VA / 10000 W	6000 VA / 6000 W	10000 VA / 8000 W
PARALLEL CAPABILITY	10	10	10
INPUT			
Nominal Voltage	208VAC/220VAC/230VAC/240VAC (1Ph+N+PE)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N+PE)	3 x 173VAC/190VAC/200VAC/208VAC/220VAC (3Ph+N+PE)
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @ 100% load	88-155 VAC (L-N); 152-269 VAC (L-L)	88-155 VAC (L-N); 152-269 VAC (L-L)
Frequency Range	40 Hz ~ 70 Hz	40 Hz ~ 70 Hz	40 Hz ~ 70 Hz
Power Factor	≧0.99 @ 100% load	≧0.99 @ 100% load	≧0.99 @ 100% load
THDi	< 4% @ full linear load	< 4% @ full linear load	< 4% @ full linear load
OUTPUT			
Output Voltage	208*/220/230/240VAC (L+N)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N)	173VAC/190VAC/200VAC/208VAC/220VAC (3Ph+N)
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≦ 2% THD (Linear Load) ; ≦ 3% THD (Non-linear Load)		
Transfer Time – AC Mode to Batt.	zero		
Transfer Time – Inverter to Bypass	zero		
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
AC Mode	93.50%	91%	92%
ECO Mode	97%	97%	97%
Battery Mode - At	92%	91%	92%
Battery Mode -	92.50%	91.50%	92%
BATTERY CHARGER			
Battery Voltage	± 12V / 9 Ah		
Battery Numbers	16~20 pcs (adjustable) x 2	8~10pcs (adjustable) x 2	8~10pcs (adjustable) x 2
Nominal Voltage	+/- 192V (12V x 32 pcs)	+/- 96V (12V x 16 pcs)	+/- 96V (12V x 16 pcs)
Maximum Voltage	+/- 240V (12V x 40 pcs)	+/- 120V (12V x 20 pcs)	+/- 120V (12V x 20 pcs)
Minimum Voltage	+/- 192V (12V x 32 pcs)	+/- 96V (12V x 16 pcs)	+/- 96V (12V x 16 pcs)
Charging Voltage	± 218V	± 109V	± 109V
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	± 4A		
INDICATORS			
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
PHYSICAL			
Dimension, DxWxH (mm)	678 × 418 × 129 (3U)		
Net Weight (kgs)	20.5	17.6	21
ENVIRONMENT			
Operating Humidity	0-95 % RH @ 0-40°C (non-condensing)		
Noise Level	Less than 55dB @ 1 Meter		
MANAGEMENT			
Smart RS-232/USB	Supports Windows® Family, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.

Product specifications are subject to change without further notice.

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7AH	Autonomy Time(min)									
Table 4 — 7AH Battery	Bat. Pack	1 unit = 20 PCS 7AH Batteries (CSB GP1272)								
	UPS	6KW	12KW	18KW	24KW	30KW	36KW	42KW	48KW	54KW	60KW
	1 unit	4.4									
	2 units	13.9	4.4								
	3 units	24.6	8.6	4.4	2.5						
	4 units	37.7	13.9	7.1	4.4	3					
	5 units	50.4	18.9	10	6.2	4.4	3.2	2.2			
	6 units	58.8	24.6	13.9	8.6	5.8	4.4	3.4	2.5		
	7 units	73.4	29.5	17.4	11.1	7.7	5.6	4.4	3.5	2.8	2
	8 units	85.9	37.7	20.4	13.9	9.5	7.1	5.5	4.4	3.6	3
	9 units	102.5	44.8	24.6	16.5	11.8	8.6	6.6	5.3	4.4	3.7
	10 units	119.5	50.4	28	18.9	13.9	10	8	6.2	5.3	4.4

10AH	Autonomy Time(min)									
Table 5 — 10AH Battery	Bat. Pack	1 unit = 16 PCS 10AH Batteries (CSB UPS12580)								
	UPS	6KW	12KW	18KW	24KW	30KW	36KW	42KW	48KW	54KW	60KW
	1 unit	11.2	3.7								
	2 units	27.2	11.2	6.1	3.7	2.3					
	3 units	47.9	18.6	11.2	7.4	5.2	3.7	2.8			
	4 units	61.4	27.2	16	11.2	8.1	6.1	4.8	3.7	3	2.3
	5 units	81.4	37.9	21.3	14.7	11.2	8.6	6.9	5.6	4.6	3.7
	6 units	/	47.9	27.2	18.6	14.1	11.2	9	7.4	6.1	5.2
	7 units	/	55.1	33.5	23	17.1	13.7	11.2	9.2	7.8	6.7
	8 units	/	61.4	41.6	27.2	19.9	16	13.4	11.2	9.4	8.1
	9 units	/	/	47.9	31.1	23.9	18.6	15.1	13.2	11.2	9.6
	10 units	/	/	53	37.9	27.2	21.3	17.6	14.7	13	11.2

10AH	Autonomy Time(min)									
Table 6 — 10AH Battery	Bat. Pack	1 unit = 20 PCS 10AH Batteries (CSB UPS12580)								
	UPS	6KW	12KW	18KW	24KW	30KW	36KW	42KW	48KW	54KW	60KW
	1 unit	8.1	2.3								
	2 units	19.9	8.1	4.2	2.3						
	3 units	35.3	14.1	8.1	5.2	3.5	2.3				
	4 units	51.1	19.9	12.3	8.1	5.8	4.2	3.2	2.3		
	5 units	61.4	27.2	16	11.2	8.1	6.1	4.8	3.7	3	2.3
	6 units	78	35.3	19.9	14.1	10.5	8.1	6.4	5.2	4.2	3.5
	7 units	90.1	44.3	25.1	17.1	13.1	10	8.1	6.7	5.5	4.6
	8 units	113.7	51.1	29	19.9	15	12.3	9.8	8.1	6.8	5.8
	9 units	132	56.3	35.3	23.9	17.7	14.1	11.7	9.6	8.1	7
	10 units	146.7	61.4	41.6	27.2	19.9	16	13.4	11.2	9.4	8.1

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