



FEATURES

- Unique slim profile design /Lead Type Terminal
- Passive linear voltage balanced cells
- Fast charge time / Molex Mini-Lock connector
- Maintenance-free backup
- Green solution vs. batteries
- Each module has voltage balancing
- RoHS Compliant

Custom
izable



APPLICATIONS

- Automatic meter readers
- Automotive subsystems
- Backup power for safe shutdown requirements
- Battery-powered tools and handheld electronic devices
- Data deduplication/Networking last gasp/RAID storage/SSD
- Wireless transmission/Servers

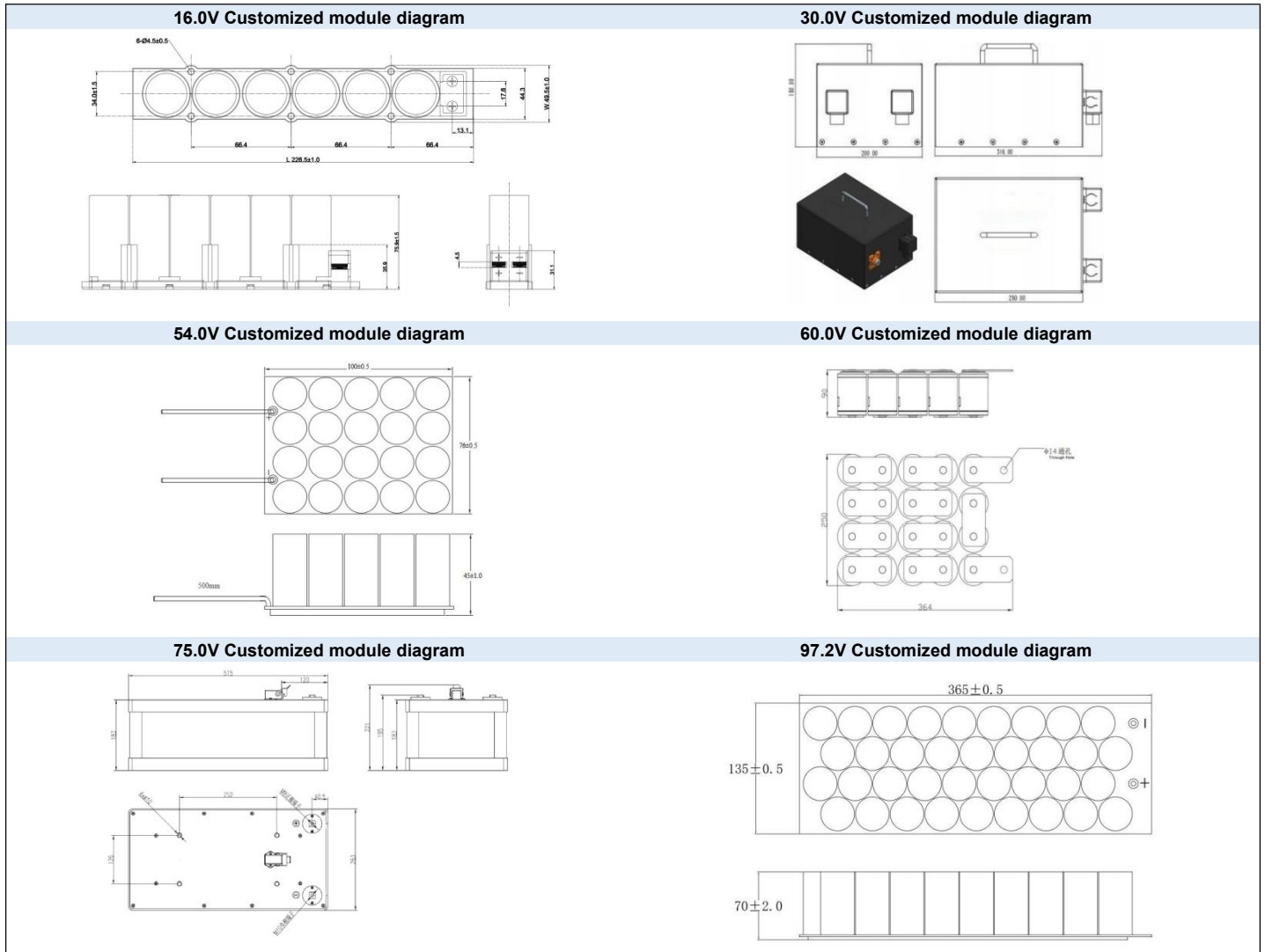
GENERAL SPECIFICATIONS

Item	Performance
Operating temperature	-40°C to +65°C
Capacitance range	30F to 500F
Capacitance tolerance	-10%to+30%
Rated voltage	16 VDC to 1000 VDC
Temperature characteristics	Capacitance change: Within ±30% of initial measured value at +25°C Internal resistance: Within ±200% of initial measured value at +25°C
Endurance (At rated voltage & max. operating temp)	After 1000 hours: Capacitance change: ±30% of initial rated value Internal resistance: Within 2 times of initial specified value
Projected load life (At rated voltage 25°C)	After 10 years: Capacitance change: ±30% of initial rated value Internal resistance: Within 2 times of initial specified value
Projected cycle life (From rated voltage to 1/2 rated voltage at 25°C)	After 500,000 cycles: Capacitance change: Within ±30 % of initial rated value Internal resistance: Within 2 times of initial specified value
Vibration resistance	Amplitude:1.5mm /Frequency:10~55Hz /Duration: X,Y,Z(2 hrs)/Duration of testing:6 hrs Capacitance change: Within ±30 % of initial rated value Internal resistance: Within 2 times of initial specified value
Shelf life	After 2 years at 25°C without load, the capacitor shall meet the specified endurance limits.

DESCRIPTION OF MODULE DESIGN

Cells separation	
Cells can be classified by capacitance, internal resistance, leakage current and self discharge to improve precision of the group matching, so as to improve the reliability and stability of the module.	
Circuit design	
Function:	design by client's requirement.
Property:	design by client's applicat load characteristic.
Balance mode:	active and passive.
Detection:	cell's over-charge test, over temperature test, counter charging test, etc.
Communication mode:	designed according to client's requirement, such as mode of SPI、RS232、RS485、CAN、12C、SMBUS ethernet or optical fiber communication.
PCB:	sturdy, firm, low internal resistance, high over-current, good property of heat dissipation
Additional function:	monitoring voltage of every parallel module, calculate surplus capacitance of module, and even surplus capacitance and conditions of each cell.
Environmental compliance	RoHS, ,MSDS,REACH, lead free No restrictions, per UN3499 with all cells <10 watt-hours

DIMENSIONS



STANDARD PRODUCTS

Part Number	Rated Voltage (V)	Rated Cap (F)	Dimensions (mm)			ESR AC (mΩ) (1 KHz)	ESR DC (mΩ)	Peak Current(A)	Leakage Current (72hrs/mA)
			W	L	H				
CM3560S58616R0M-Z	16	58	49	226	76	19	22	212	7
CM2250S20624R0M-Z	24	20	97	55	80	65	90	81	0.7
CM3567S50627R0M-Z	27	50	200	72	90	30	40	250	2
CM60138S30730R0M-Z	30	300	200	316	180	1.2	1.5	3450	42
CM3585S50632R0M-Z	32	50	150	110	90	12	18	450	1.5
CM2245S50548R0M-Z	48	5	210	46	50	150	200	64	0.5
CM3566S27648R0M-Z	48	27	330	72	70	73	98	195	1.4
CM1840S30554R0M-Z	54	3	76	100	45	300	460	34	0.15
CM60138S10760R0M-Z	60	100	250	364	90	6	8	1744	4
CM3560S19664R0M-Z	64	19	220	150	65	72	80	240	2.2
CM60138S94675R0M-Z	75	94	263	515	221	10	13	2665	50
CM3566S20680R0M-Z	80	20	150	465	207	50	70	440	60
CM3560S96590R0M-Z	90	9.6	112	305	270	110	130	220	30
CM3560S11690R0M-Z	90	11	112	305	270	110	130	220	30
CM3560S13690R0M-Z	90	13	112	305	270	110	130	220	30
CM3566S17690R0M-Z	90	17	150	410	211	60	75	440	60
CM3560S10697R0M-Z	97	10	135	365	68	148	200	165	1
CM3560S605160R0M-Z	160	6	251	379	83	190	240	220	30
CM3566S106160R0M-Z	160	10	90	420	300	190	240	220	30
CM3570S505240R0M-Z	240	5	300	200	80	100	130	360	1.5
CM3585S305320R0M-Z	320	3	400	300	100	120	150	490	1.8
CM60102S935800R0M-Z	800	9.3	700	600	1800	100	120	1900	6

The above models have been customized products for reference, if you need to customize please contact us, click No.8 (<https://en.cda-cap.com/index.php/faq/>)