



CLEON[®]
Power Your World



LITHIUM-ION POWER



APPLICATION

- ▶ HOME APPLIANCES
- ▶ POWER BACK-UP
- ▶ OFFICE EQUIPMENT
- ▶ SECURITY INSTRUMENTS
- ▶ EMERGENCY LIGHTING
- ▶ SOLAR
- ▶ EV



Safety



**Constant
Power**



**Long
Shelf Life**



Lightweight



**Longest
Life**



**Maintenance
Free**



**Temperature
Tolerant**



**Charging
Fast & Safe**

PRODUCT FEATURES:

1. MORE POWER.
2. LONG SERVICE LIFE.
3. 6-10TIMES MORE SERVICE LIFE.
4. CONSTANT POWER & ENERGY AT ANY RATE OF DISCHARGE.
5. SUPERIOR PERFORMANCE IN COLD TEMPERATURE.
6. OUTSTANDING OVERCHARGE TOLERANCE & SAFE PERFORMANCE.
7. 4- 6 TIMES FASTER.
8. KEEPS BATTERY HEALTHY, SAFE & DELIVERS LONG LASTING PERFORMANCE.
9. 1/3 IN SIZE WEIGHT.
10. HIGH DENSITY ENERGY.
11. NO ACID, SAFE FOR HUMAN LIFE.
12. IN ANY ROOM & ANY POSITION.
13. FREEDOM FROM MAINTENANCE.
14. EXTREME LOW SELF DISCHARGE & USER FRIENDLY.



TECHNICAL DATA

Model Name		(12.8V/78Ah)	(12.8V/84Ah)	(12.8V/126Ah)	(12.8V/192Ah)	(12.8V/252Ah)
General Characteristics	Chemistry	LFP	LFP	LFP	LFP	LFP
	Capacity (Ah)	78	84	126	192	252
	Number of cell in series	4	4	4	4	4
	Number of cell in parallel	13	14	21	32	42
	Total number of cells	52	56	84	128	168
	Normal voltage (V)	12.8	12.8	12.8	12.8	12.8
	Peak Power (kW)	0.998	1.075	1.613	2.438	3.226
	Back up Time (Minutes) @100 W load	135	145	241	368	482
	BMS type	PCM	PCM	PCM	PCM	PCM
	Electrical Characteristics	Operating voltage range (V)	10.8 - 14.6	10.8 - 14.6	10.8 - 14.6	10.8 - 14.6
Charging mode		CC/CV	CC/CV	CC/CV	CC/CV	CC/CV
Recommended charging voltage (V)		14.6	14.6	14.6	14.6	14.6
Max Discharging current (Amp)		90A (Max)	90A (Max)	100A (Max)	100A (Max)	100A (Max)
Pulsed Discharge current (Amp)		90A (Max)	90A (Max)	100A (Max)	100A (Max)	100A (Max)
Standard Charging current (Amp)		15.6A	16.8A	25.2A	38.4A	50.4A
Over discharge disconnect Voltage (V)		10	10	10	10	10
Over discharge Reconnected Voltage		10.8	10.8	10.8	10.8	10.8
Over charge protection level (V) Max		14.60	14.60	14.60	14.60	14.60
Over charge protection recovery level (V)		14.2	14.2	14.2	14.2	14.2
Bleeding start voltage level (V) in range		3.45 - 3.65	3.45 - 3.65	3.45 - 3.65	3.45 - 3.65	3.45 - 3.65
Bleeding current (mA) in range		18 - 65	18 - 65	18 - 65	18 - 65	18 - 65
Over temperature protection in discharging mode		80 - 90°C	80 - 90°C	80 - 90°C	80 - 90°C	80 - 90°C
Over temperature protection recovery in discharging mode (Range)		45 - 70°C	45 - 70°C	45 - 70°C	45 - 70°C	45 - 70°C
Protections		Cell over voltage protection	YES	YES	YES	YES
	Cell under voltage protection	YES	YES	YES	YES	YES
	Charging over current protection	YES	YES	YES	YES	YES
	Discharging over current protection	YES	YES	YES	YES	YES
	Output short circuit protection	YES	YES	YES	YES	YES
	Cell temperature protection in discharging mode	YES	YES	YES	YES	YES
Temperature Characteristics	Maximum working temperature	-20 C to +70 C	-20 C to +70 C	-20 C to +70 C	-20 C to +70 C	-20 C to +70 C
	Storage temperature	-30 C to +85 C & rh < 90%	-30 C to +85 C & rh < 90%	-30 C to +85 C & rh < 90%	-30 C to +85 C & rh < 90%	-30 C to +85 C & rh < 90%
Warranty	Cycle life @ 80%DODs	5 Years	5 Years	5 Years	5 Years	5 Years
	Cabinet design	280*170*210mm	280*170*210mm	400*170*210mm	400*170*210mm	400*170*210mm
Battery Weight	Power connector	NA	NA	NA	NA	NA
	RS485-CAN	NO	NO	NO	NO	NO
	Net Weight (kg) Approx.	15.4kg (approx)	17kg (approx)	16kg (approx)	25kg (approx)	32kg (approx)

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