



## PRODUCT DESCRIPTION

The EnerSmart 48V Smart Telecom Li-ion Battery composed of prismatic LFP cells, intelligent battery management system (BMS), and bidirectional DC converter (BDC) is developed for the 5G telecom market. The product features active control of the charge and discharge voltages to solve the bias current and circulating current issue inside battery packs when connected in parallel. Moreover, this product supports mixed use of lithium and lead-acid batteries and can be used for smart peak shifting and off-peak power consumption to save the initial investment of the product and thus enhance the income on investment.



## APPLICATION SCENARIOS

- New 5G telecom base station
- High-power long-distance power supply
- Base station retrofit for 5G
- Other forms of telecom base stations:  
traditional base station cabin, outdoor cabinet



## PRODUCT FEATURES

- Support for mixed use of lithium and lead-acid batteries
- Support for parallel connection of new and old lithium batteries
- Maintenance free
- Extended service life
- Modular & lightweight design for easy operation and maintenance
- Integrated with high-efficiency BDC allowing for active charge and discharge control
- Standard rack-mounted installation design (3U size)
- High energy density



Model	CS48100T-15S	CS48150T-15S	CS48100T-16S	CS48150T-16S
Battery Type	LFP	LFP	LFP	LFP
Rated Voltage [V]	48V	48	51.2	51.2
Rated Capacity [Ah]	100	150	100	150
Energy [Wh]	4800	7200	5120	7680
Charging Voltage [V]	56	56	56	56
Standard Charging Current [A]	20	30	20	30
Max. Charging Current [A]	100	100	100	100
Standard Discharging Current [A]	50	50	50	50
Max. Continuous Discharging Current [A]	100	100	100	100
Discharging End Voltage [V]	40	40	43.2	43.2
Cycle Life [Times]	4000	4000	4000	4000
Internal Resistance [mΩ]	≤ 10	≤ 10	≤ 10	≤ 10
Dimensions [W*D*H, mm]	440*420*130	440*530*133	440*420*130	440*530*133
Weight [kg]	~44	~66	~46	~70
IP Grade	IP20			
Communication	RS485, CAN and dry contact			
Parallel Connection	Up to 32 packs			
Working Temperature [°C]	Charging: 0 to 55 Discharging: -20 to +65			
Storage Temperature [°C]	-30 to +60			
Humidity	5% -95% RH (non-condensing)			
Optional Accessories	LCD screen, GPS, SNMP, and anti-theft gyroscope			

Note: The above information may subject to update without prior notice.