

HCG-24S Series / Data sheet



12V 100Ah

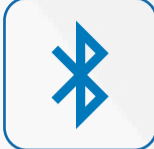
12V 120Ah

Bluetooth

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Model Included:

- HCG24S-12100BT** 12V 100Ah LiFePO4 Battery with Bluetooth
- HCG24S-12100BH** 12V 100Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)
- HCG24S-12120BT** 12V 120Ah LiFePO4 Battery with Bluetooth
- HCG24S-12120BH** 12V 120Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)

Haicen Advanced Lithium Batteries		Model			
		HCG24S-12100BT	HCG24S-12100BH	HCG24S-12120BT	HCG24S-12120BH
Electrical Specifications	Nominal Voltage	12.8V	12.8V	12.8V	12.8V
	Nominal Capacity	100Ah	100Ah	120Ah	120Ah
	Parallel Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	Serial Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	BMS	4S100A	4S100A	4S150A	4S150A
	Bluetooth	Android/IOS	Android/IOS	Android/IOS	Android/IOS
	Heat	No	Yes	No	Yes
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance,Low temp			
	Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD			
	Self Discharge	Less than 3% per month			
	Charge Efficiency	100% @0.2C			
Discharge Efficiency	98-100% @1C				
Charge Specifications	Charge Voltage	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V
	Standard Current	20A	20A	24A	24A
	Fast Current	50A	50A	60A	60A
Discharge Specifications	Standard Current	20A	20A	24A	24A
	Max. Con. Current	100A	100A	120A	120A
	Peak Current	700A(300ms)	700A(300ms)	800A(300ms)	800A(300ms)
	Cut-off Voltage	10V	10V	10V	10V
Mechanical Specifications	Dimensions (mm)	260×170×208mm (Group 24)			
	Approx Weight(KG)	11.5	12	13	13.5
	Terminal Type	M8			
	Case Color/material	Black Plastic case (ABS)			
	IP Rating	IP65			
	Cell Type	Cylindrical LiFePO4 cell			
	Cell holder	Yes			
Temperature Specifications	Charge Temp	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)
	Discharge Temp	-20°C to 60°C (-4°F to 140°F)		-20°C to 55°C (-4°F to 131°F)	
	Storage Temp	-5°C to 45°C (23°F to 113°F)		-20°C to 55°C (-4°F to 131°F)	

HCG-27S Series / Data sheet



12V 120Ah

12V 135Ah

Bluetooth

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Model Included:

- HCG27S-12120BT** 12V 120Ah LiFePO4 Battery with Bluetooth
- HCG27S-12120BH** 12V 120Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)
- HCG27S-12135BT** 12V 135Ah LiFePO4 Battery with Bluetooth
- HCG27S-12135BH** 12V 135Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)

Haicen Advanced Lithium Batteries		Model			
		HCG27S-12100BT	HCG27S-12100BH	HCG27S-12120BT	HCG27S-12120BH
Electrical Specifications	Nominal Voltage	12.8V	12.8V	12.8V	12.8V
	Nominal Capacity	120Ah	120Ah	135Ah	135Ah
	Parallel Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	Serial Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	BMS	4S150A	4S150A	4S150A	4S150A
	Bluetooth	Android/IOS	Android/IOS	Android/IOS	Android/IOS
	Heat	No	Yes	No	Yes
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance,Low temp			
	Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD			
	Self Discharge	Less than 3% per month			
	Charge Efficiency	100% @0.2C			
Discharge Efficiency	98-100% @1C				
Charge Specifications	Charge Voltage	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V
	Standard Current	24A	24A	27A	27A
	Fast Current	60A	60A	67A	67A
	Discharge Specifications	Standard Current	24A	24A	27A
	Max. Con. Current	120A	120A	135A	135A
	Peak Current	800A(300ms)	800A(300ms)	800A(300ms)	800A(300ms)
	Cut-off Voltage	10V	10V	10V	10V
Mechanical Specifications	Dimensions (mm)	305×169×210mm (Group 27)			
	Approx Weight(KG)	13.5	14	14	14.5
	Terminal Type	M8			
	Case Color/material	Black Plastic case (ABS)			
	IP Rating	IP65			
	Cell Type	Cylindrical LiFePO4 cell			
	Cell holder	Yes			
Temperature Specifications	Charge Temp	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)
	Discharge Temp	-20°C to 60°C (-4°F to 140°F)			
	Storage Temp	-5°C to 45°C (23°F to 113°F)			

HCG-31S Series / Data sheet



12V 150Ah

12V 130Ah

Bluetooth

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Model Included:

- HCG31S-12130BT** 12V 130Ah LiFePO4 Battery with Bluetooth
- HCG31S-12130BH** 12V 130Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)
- HCG31S-12150BT** 12V 150Ah LiFePO4 Battery with Bluetooth
- HCG31S-12150BH** 12V 150Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)

Haicen Advanced Lithium Batteries		Model			
		HCG31S-12130BT	HCG31S-12130BH	HCG31S-12150BT	HCG31S-12150BH
Electrical Specifications	Nominal Voltage	12.8V	12.8V	12.8V	12.8V
	Nominal Capacity	130Ah	130Ah	150Ah	150Ah
	Parallel Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	Serial Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	BMS	4S150A	4S150A	4S150A	4S150A
	Bluetooth	Android/IOS	Android/IOS	Android/IOS	Android/IOS
	Heat	No	Yes	No	Yes
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance,Low temp			
	Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD			
	Self Discharge	Less than 3% per month			
	Charge Efficiency	100% @0.2C			
Discharge Efficiency	98-100% @1C				
Charge Specifications	Charge Voltage	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V
	Standard Current	26A	26A	30A	30A
	Fast Current	65A	65A	75A	75A
	Discharge Specifications	Standard Current	26A	26A	30A
Max. Con. Current		130A	130A	150A	150A
Peak Current		600A(300ms)	600A(300ms)	600A(300ms)	600A(300ms)
Cut-off Voltage		10V	10V	10V	10V
Mechanical Specifications	Dimensions (mm)	330×173×216mm (Group 31)			
	Approx Weight(KG)	15	15.5	15.5	16
	Terminal Type	M8			
	Case Color/material	Black Plastic case (ABS)			
	IP Rating	IP67			
	Cell Type	Cylindrical LiFePO4 cell			
	Cell holder	Yes			
Temperature Specifications	Charge Temp	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)
	Discharge Temp	-20°C to 60°C (-4°F to 140°F)			
	Storage Temp	-5°C to 45°C (23°F to 113°F)			