

### 48V MODULE (KH-ES SERIES)



KH-ES4850



KH-ES48100



KH-ES48200

Model	KH-ES4850	KH-ES48100	KH-ES48200
<b>General characteristic</b>			
Nominal Voltage	48V	48V	48V
Nominal capacity	50AH	100AH	200AH
Min capacity	49.5AH	99AH	198AH
Nominal energy	2400WH	4800WH	9600WH
Dimension(L*W*H)	482*400*133MM	483*459*175MM	483*650*220MM
Approx.weight	31.5KG	49.5KG	78KG
<b>Electrical characteristics</b>			
End of charge voltage	58.4V	58.4V	58.4V
End of discharge voltage	42V	42V	42V
Continuous charge current	25A	50A	100A
Continuous discharge current	50A	100A	140A
Max pulse discharge current	150A	300A	600A
Standard charge method	CC/CV	CC/CV	CC/CV
Internal resistance	80mΩ	70mΩ	60mΩ
Operating temperature(charge)	0°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C
Operating temperature(discharge)	-30°C ~ 55°C	-30°C ~ 55°C	-30°C ~ 55°C
Storage temperature	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C
Storage duration	12 months@25°C	12 months@25°C	12 months@25°C
Cycle life(25°C@50%DOD,0.2C)	7000 times	7000 times	7000 times
Cycle life(25°C@80%DOD,0.2C)	4000 times	4000 times	4000 times
Certification	CE/UN38.3/MSDS	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Communication	RS485/RS232/CAN	RS485/RS232/CAN	RS485/RS232/CAN
Display	LED light	LED light	LED light
Parallel connection	Maxium 16 units	Maxium 16 units	Maxium 16 units
Cooling method	Natural cooling	Natural cooling	Natural cooling

### 48V BATTERY (KH-ES SERIES)



KH-ES5KPW



KH-ES10KPW



KH-ES20KPT

Model	KH-ES5KPW	KH-ES10KPW	KH-ES20KPT
<b>General characteristic</b>			
Nominal Voltage	48V	48V	48V
Nominal capacity	100AH	200AH	400AH
Min capacity	99AH	198AH	396AH
Nominal energy	4.8KWH	9.6KWH	19.2KWH
Dimension(L*W*H)	442*410*220MM	485*650*220MM	600*600*1100MM
Approx.weight	54.5KG	83KG	220KG
<b>Electrical characteristics</b>			
End of charge voltage	58.4V	58.4V	58.4V
End of discharge voltage	42V	42V	42V
Continuous charge current	50A	100A	200A
Continuous discharge current	100A	140A	300A
Max pulse discharge current	200A	300A	400A
Standard charge method	CC/CV	CC/CV	CC/CV
Internal resistance	70mΩ	60mΩ	60mΩ
Operating temperature(charge)	0°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C
Operating temperature(discharge)	-30°C ~ 55°C	-30°C ~ 55°C	-30°C ~ 55°C
Storage temperature	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C
Storage duration	12 months@25°C	12 months@25°C	12 months@25°C
Cycle life(25°C@50%DOD,0.2C)	7000 times	7000 times	7000 times
Cycle life(25°C@80%DOD,0.2C)	4000 times	4000 times	4000 times
Certification	CE/UN38.3/MSDS	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Communication	RS485/RS232/CAN	RS485/RS232/CAN	RS485/RS232/CAN
Display	LED light	LED light	LED light
Parallel connection	Maxium 16 units	Maxium 16 units	/
Cooling method	Natural cooling	Natural cooling	Natural cooling