

**WECO**

# Lithium Energy Storage System

ESS – 5K3- R20

[www.wecobatteries.com](http://www.wecobatteries.com)

## WALL & STACKABLE MODULE

### 5K3 LV Configuration




-  Fast Charge
-  Cost Effective
-  EV charger ready
-  100% DoD
-  Active Equalizer
-  No BMU required

#### LV Configuration - Parallel


MAX PARALLEL UNITS	N	5
MAX PARALLEL UNITS WITH WE-HUB	N	25
CLUSTER of 5 UNITS MAX CURRENT (CH-DIS)	A	800

 Cluster interconnections

 Remote controlled Self upgrade

Dimensions	mm	460x520x155	Cell Type	ID	LiFePO4
Weight	kg	53	Cells Distribution	P/S	16S
Case material	Type	Steel	BMS charge Temp.	°C	-10°C +55°C
Stack Tower (max)	N°	5	BMS Disch. Temp.	°C	-25°C +65°C
Stackable	Type	Yes	Storage Time/Temp.	°C	-20°C +45°C 4months
Digital Output	N°	2	Self Discharge	%	1% month @25°C

 High Speed Data

 Self Detection Wi-Fi net

Nominal Voltage	Vdc	51.2
Max Voltage	Vdc	58.4
Low Voltage	Vdc	44.5
Rated Capacity	Ah	105
Rated Energy	kWh	5,3
Charge /Disch.	A	100A / 200A
Cycles ( Up to)	N	10.000

 UN 38.3 Safety Passed

 End Life Recycling Program

## STACKABLE MODULE


### 5K3 HV Configuration



-  Fast Charge
-  Cost Effective
-  EV charger ready
-  97 % DoD
-  Active Equalizer
-  No BMU required

HV Circuit - Parallel		
SERIAL CONNECTION (Cluster)	Max Series	12
MAX CLUSTERS IN PARALLEL	N	9
MAX CURRENT (Cluster of 12 Modules)	A	200

 Cluster interconnections

 Remote controlled Self upgrade

Dimensions	mm	460x520x155	Cell Type	ID	LiFePO4
Weight	kg	53	Cells Distribution	P/S	16S
Case material	Type	Steel	BMS charge Temp.	°C	-10°C +55°C
Stack Tower (max)	N°	5	BMS Disch. Temp.	°C	-25°C +65°C
Stackable	Type	Yes	Storage Time/Temp.	°C	-20°C +45°C 4months
Digital Output	N°	2	Self Discharge	%	1% month @25°C

 High Speed Data

 Self Detection Wi-Fi net

Minimum Cluster Nominal Voltage HV ( 3 modules)	Vdc	145
Max Cluster Voltage Voltage ( 12 modules)	Vdc	700
Min capacity per Cluster ( 3 Modules)	kWh	15,5 kWh
Max Capacity per Cluster ( 12 Module)	kWh	62 kWh
Max System capacity ( 9 clusters x 12 modules)	kWh	558 kWh
Max Cluster Current	A	As per BMS
Maximun Cycles	N	Up to 10,000

 UN 38.3 Safety Passed

 End Life Recycling Program