

Batería LiFePO4 / 51.2 Vcc / 392 Ah / 20 kWh / Exterior IP65 / RS485/CAN / Escalable 120 kWh

SKU: RES39220K Marca: EPCOM POWER LINE BY RITAR Categoría: Baterías

Garantía: 7 años

$82,651.07

Precios con IVA incluido

DESCRIPCIÓN

Sistema de almacenamiento de energía basado en tecnología de litio hierro fosfato (LiFePO4) con capacidad nominal de 20.07 kWh, voltaje de 51.2 Vcc y corriente nominal de 392 Ah. El diseño exterior con grado de protección IP65 y la configuración floor mounted con rodillos integrados permiten su despliegue en ambientes externos sin infraestructura adicional para traslado. El sistema incorpora un BMS reforzado que gestiona la operación segura y permite la conexión en paralelo de hasta seis unidades para alcanzar una capacidad acumulada de 120 kWh. Las celdas prismáticas ofrecen una vida útil de 6000 ciclos con una profundidad de descarga del 90%, mientras que los puertos de comunicación RS485 y CAN facilitan la integración con inversores de los principales fabricantes.

Características Generales
Tipo: Litio Hierro Fosfato (LiFePO4)
Capacidad energética: 20.07 kWh
Voltaje nominal: 51.2 Vcc
Capacidad nominal: 392 Ah
Vida útil: 6000 ciclos al 90% DOD
Expansión paralelo: Hasta 6 unidades (120 kWh acumulados)
Grado de protección: IP65
Instalación: Exterior floor mounted con rodillos integrados
Comunicación: RS485 / CAN
Mantenimiento: Libre de mantenimiento

Desempeño
Tecnología de celdas: LiFePO4 prismáticas
Capacidad: 20.07 kWh
Voltaje nominal: 51.2 Vcc
Capacidad nominal: 392 Ah
Ciclos de vida útil: 6000 a 90% DOD
Configuración: Paralelo hasta 6 unidades (120 kWh)

Físicas y Eléctricas
Ubicación: Exterior
Instalación: Floor mounted
Movilidad: Rodillos integrados en base
Protección: IP65
Comunicación: RS485 y CAN

Contenido del Paquete
Unidad de batería RES39220K

ESPECIFICACIONES

Característica 1	**Expansión modular hasta 120 kWh configurando 6 unidades en paralelo**
Característica 2	**Durabilidad de 6000 ciclos al 90% de profundidad de descarga**
Característica 3	**Celdas prismáticas LiFePO4 de alta estabilidad térmica y química**
Característica 4	**Protocolos RS485/CAN para compatibilidad directa con inversores**
Característica 5	**Carcasa IP65 con rodillos para despliegue exterior y movilidad**
Característica 6	**Gestión avanzada mediante BMS reforzado sin mantenimiento requerido**

MEMORIA TÉCNICA · RES39220K

Número de parte de esta ficha: RES39220K. La información corresponde a esta variante.

LI-ION BATTERY
RES3 9220K
OU
TDOOR FLO OR MOUNTED L I-ION BAT TERY
SAFETY SCALABILITY
+ Low voltage system, safety for application.
+ Parallel support for more energy.
+
+ Long life type prismatic LiFePO4 cells, suitable for
energy storage application.
DESIGN
+ Flexible and easily installation, bottom with rollers.
+ Outdoor floor mounted design, IP65 class.
+ Maintenance free.
Cell certification: IEC62619, UL1973, UL9540A, ROHS+
-20~+55°C widely temperature range.+
Communication compatible with the major inverter
manufacturers.
Battery certification: UN38.3, MSDS, CE+
Ver
- V1
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1
- Publish
- Date
2026-04-23

BATTERY MANAGEMENT SYSTEM
+
+ OVP, LVP, OCP, OTP, LTP, Short-circuit protection.
Independent protection for charge and discharge.
+ RS485,CAN communication port for inverter and Link
in& out for battery to battery parallel communication.
+ Panasonic AFE + ST MCU, Highly reliability and widely
temperature range.
- The datasheet is subject to change without prior notification
Part Number
Model RES39220K
Nominal Voltage [V] 51.2
Nominal Capacity [Ah] 392
Total Energy [Wh] 20070
Dimension (W*D*H, mm) 730*220*810
Weight [Kg] 153.0
Max. Charging Current [A] 200
Max. Discharging Current [A] 200
Pulse Discharge Current 220A @ 10s
Charging Voltage [V]
End of Dicharge Voltage [V]
Operation Humidity
Operating Temperature Range
Cycle Life >6000
Designed Calendar Life
Communication interface
Protection
Parallel Support
Series Support
For inverter : RS485, CAN
Over voltage , Low voltage, Over current,
Over Temperature, Low Temperature, Short circuit
Yes, Max. 6 Sets
Not support
0~95% RH (No condensing)
10 Years
Charge: 0 ~ +55°C;
Discharge: -20 ~ +55°C
55.2~57.6
44.8
Note:
(1) 25°C, 0.5C /0.5C , 90%DOD to 80% of initial capacity.
(2) For parallel connection, refer to user manual.
For battery to battery: LINK-IN, LINK-OUT
(1)
(2)
LI-ION BATTERY
RES39220K
S
PECIFICATION
- BMS Parameters
S/N Default Setting Adjustable or not
Cell OV alarm 3500mV Adjustable
Cell OV protection 3650mV Adjustable
Delay time 1.0S±0.5S Adjustable
Release voltage 3320mV Adjustable
Discharge release
Discharge current >
1A
Cell LV alarm 2900mV Adjustable
Cell LV protection 2800mV Adjustable
Delay time 1S Adjustable
Release voltage 3050mV Adjustable
Charge release connect to charger
System OV alarm 3.5V*Cells series Adjustable
System OV protection Adjustable
Delay time 1.0S Adjustable
Release voltage Adjustable
Discharge release
Discharge current >
1A
System LV alarm Adjustable
System LV protection Adjustable
Delay time 1S Adjustable
Release voltage Adjustable
Charge release connect to charger
OC alarm 210A Adjustable
OC protection 220A Adjustable
Delay time 1.0S Adjustable
Automatic release
1min automatic
release
Discharge release discharge current > 1A
4
System Low-voltage
protection
System LV protection
release
5
Charge Over-current
protection
Charge OC protection
release
2
Cell Low-voltage
protection
Cell LV protection
release
3
System Over-voltage
protection
System OV protection
release
Parameters
1
Cell Over-voltage
protection
Cell OV protection

release
3.65V*Cells series
3.38V*Cells series
2.9V*Cells series
2.8V*Cells series
2.9V*Cells series
LI-ION BATTERY
- S/N Default Setting Adjustable or not
OC Alarm-1 220A Adjustable
OC protection 240A Adjustable
Delay time 5.0S Adjustable
Automatic release
It will be automatically
released after 1min. If
it repeat 10 times, the
state will be locked.
Discharge release
Charge release charge current > 1A
Short circuit proteciton Yes
Release voltage Charge the battery
Remove the load
MOS HT alarm 90℃ Adjustable
MOS HT protection 110℃ Adjustable
MOS protection release 85℃ Adjustable
Charge low temperature alarm 5℃ Adjustable
Charge low temperature protection 0℃ Adjustable
Charge low temperature protection
release
5℃ Adjustable
Charge high temperature alarm 60℃ Adjustable
Charge high temperature protection 65℃ Adjustable
Charge high temperature protection
release
60℃ Adjustable
Discharge low temperature alarm -15℃ Adjustable
Discharge low temperature protection -20℃ Adjustable
Discharge low temperature protection
release
-15℃ Adjustable
Discharge high temperature alarm 65℃ Adjustable
Discharge high temperature protection 70℃ Adjustable
Discharge high temperature protection
release
60℃ Adjustable
8
MOS high temperature
protection
9 Cell temperature
7Short circuit protection
6
Discharge Over-current
protection
Discharge Over-current
protection release
Parameters
LI-ION BATTERY
- Ambient low temperature alarm -20℃ Adjustable
Ambient low temperature protection -25℃ Adjustable
Ambient low temperature protection
release
-20℃ Adjustable
Ambient high temperature alarm 70℃ Adjustable
Ambient high temperature protection 80℃ Adjustable
Ambient high temperature protection
release
70℃ Adjustable
10Ambient temperature
S/N Default Setting Adjustable or notParameters
The datasheet is subject to change without prior notification
LI-ION BATTERY
SYSTEM TOPOLOGY
B+
B-
P-
P+
RS485
CAN
Link-in
Link-out
Bluetooth
Module
(Optional)
Pre-charge
Circuit
ON/OFF
Button
Note:
For 48V , it’s 15 cells in series, for
51.2V, it’s 16 cells in series.
LCD Display
MCB
- Dimension
LI-ION BATTERY