

# C&I ESS SERIES

RPCI – HVC5  
(LFP - 50KW – 100KWh)

ENERGY STORAGE SYSTEM



## ENERGY STORAGE SYSTEM

**Model** RPCI-HVC5 (LFP-50kW-100kWh)

### SYSTEM PARAMETERS

#### Battery System Parameters

Battery Module Type	51.2V
Battery Module Number	7
Battery Module Dimension	442*750*230mm
Battery System Voltage	358.4V
Battery Capacity	280Ah
Normal Energy	100kWh
Battery Max Charge Current	200A
Battery Max Discharge Current	200A
Charge Voltage	392V
Cut-off Voltage	313.6V

#### 50kw Inverter Parameters

##### Battery Parameters

Max Battery Voltage	850V
Min Battery Voltage	160V
Normal Voltage Range	320V~850V
Max Charge/Discharge Current	80A

##### PV Parameter

Max Power	25kW*2
Max PV Voltage	850V
PV Start Voltage	250V
MPPT Voltage Range	200V~830V
Max PV Current	(25A+25A)*2

##### On Grid

Normal Power	25kVA*2
Normal Current	36.2A*2
AC voltage	400V/230V
AC voltage range	-20%~15%
Frequency Range	(50Hz/47Hz~52Hz) / (60Hz/57Hz~62Hz)
Power Factor	-0.8~0.8

##### Off Grid

Normal Power	25kVA*2
Max Out Power	27.5KVA*2
Normal Current	36.2A*2
Max Output Current	40A*2
AC Voltage	400V/230V
Output Voltage Harmonics	<3%(resistive load)
Degree Of Unbalance	100%
Frequency Range	50/60HZ
Overload	(39.8A<I load≤45A/100s 45A<I load≤54A/100ms)*2

## ENERGY STORAGE SYSTEM

### Model

### SYSTEM PARAMETERS

#### System parameters

Communication Port	EMS:RS485 Battery:CAN or RS485
DIDO	DI*2 DO*2
Efficiency	97%
Weight	35kg*2
Dimension	440*560*183mm
IP Rate	IP20
Work Temperature Range	-30~60°C
Humidity	5~95% RH
Cooling	FAN
Inverter Certificate	CE, IEC62019, IEC62477, IEC6100, EN50549

#### Cabinet

Cooling	Air conditioner
System Weight	≈1200kg
Dimension	Approx 1000*1400*2300mm
Inverter Installation	Built-in Cabinet

### Application process

