

C&I ENERGY STORAGE SYSTEM HVC7 / HVC6

HIGH VOLTAGE LITHIUM ION BATTERY ENERGY STORAGE SYSTEM
HVC7 (50kW-100kWh) — HVC6 (30kW-50kWh)



High Power & Capacity

Efficient Performance

Scalable Solution

Advanced Protection

Easy Installation

Smart Monitoring

Datasheet

Specifications	HVC7 (50kW-100kWh)	HVC6 (30kW-50kWh)
BATTERY SYSTEM PARAMETERS		
Battery Module Type	51.2V	
Battery Module Number	7	4
Battery Module Dimension	442*750*230mm	
Battery System Voltage	358.4V	204.8V
Battery Capacity	280Ah	
Normal Energy	100kWh	50kWh
Battery Max Charge Current	160A	100A
Battery Max Discharge Current	160A	100A
Charge Voltage	386.4V	220.8V
Cut-off Voltage	313.6V	179.2V
SYSTEM PARAMETERS		
Communication Port	EMS: RS485, Battery: CAN or RS485	
DIDO	DI*2 DO*2	
Efficiency	97%	
Module Weight	35kg*2	35kg
Dimension	440*560*183mm	
IP Rate	IP20	
Work Temperature Range	-30~60°C	
Humidity	5~95% RH	
Cooling	FAN	
Inverter Certificate	CE, IEC62019, IEC62477, IEC61000, EN50549	
INVERTER PARAMETERS (50KW / 30KW)		
Max Battery Voltage	850V	
Min Battery Voltage	160V	160V
Normal Voltage Range	320V~850V	320V~850V
Max Charge/Discharge Current	160A	100A
PV PARAMETER		
Max Power	30kW*2	19.2kW+19.2kW
Max PV Voltage	850V	
PV Start Voltage	250V	
MPPT Voltage Range	200V~830V	
Max PV Current	(25A+25A)*2	32A+32A
ON GRID		
Normal Power	25kVA*2	18kVA
Normal Current	36.2A*2	26A
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	18kVA
Max Out Power	27.5kVA*2	21kVA
Normal Current	36.2A*2	26A
Max Output Current	40A*2	30A
AC Voltage	400V/230V	
Output Voltage Harmonics	<3% (resistive load)	
Degree Of Unbalance	100%	
Frequency Range	50/60HZ	
Overload	(39.8A<l loads≤45A/100s, 45A<l loads≤54A/100ms)*2	28.6A<l loads≤32.5A/100s, 32.5A<l loads≤39A/100ms
CABINET		
Cooling	Air conditioner	
System Weight	≈1430kg	≈915kg
Dimension	Approx 1000*1450*2100mm	Approx 800*1450*2100mm
Inverter Installation	Built-in Cabinet	

* If the ambient temperature is too high or too low, performance will be limited.
* Under specific test conditions.