

# CPS ESSR-05/10/15/20KH1

## High Voltage Residential Battery



Hybrid PCS

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### Flexible

- Standard packs and control modules reduce inventory and design difficulties
- Working below -10°C with self heating

### Strong

- C-rate up to 0.8
- 4kW for each pack. Get 10kW power from only 15kWh

### Easy

- Reduce wiring work during pack install
- Automatically assign of BMS address

### Technical parameters



Model	CPS ESSR-05KH1	CPS ESSR-10KH1	CPS ESSR-15KH1	CPS ESSR-20KH1
<b>System Parameters</b>				
Power Control Module	CPS ECD500	CPS ECD500	CPS ECD500	CPS ECD500
Battery Extension Module	CPS EBM032050LF-H	CPS EBM032050LF-H	CPS EBM032050LF-H	CPS EBM032050LF-H
Rated Voltage(V)	102.4	204.8	307.2	409.6
Operating Voltage Range(V)	89.6~115.2V	179.2~230.4V	268.8~345.6V	358.4~460.8V
Max Charge/Discharge Current(A)	40	40	40	40
Max Power(kW)	4.0	8.1	12.2	16.3
Rated Charge/Discharge Energy(kWh)	5.12	10.24	15.36	20.48
Useable Battery Energy(kWh)	5.12	10.24	15.36	20.48
DOD	100%	100%	100%	100%
Weight(kg)	75	131	188	244
Dimension (W*D*H,mm)	770*178*680	≈770*178*1040	≈770*178*1400	≈770*178*1760
Product Parallel Extension(kWh)	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh
Operating Temperature(°C)	Charge&Discharge: -10~50			
Working Humidity	5~95%	5~95%	5~95%	5~95%
Protection	IP65	IP65	IP65	IP65
EOL	70%	70%	70%	70%
Communication	CAN	CAN	CAN	CAN
Certificates	IEC 62619, IEC 63056, IEC 62040-1, IEC 62477-1, CE EMC, VDE 2510-50, UKCA, UN38.3			
Installation	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount
Cooling	Natural	Natural	Natural	Natural
Altitude	≤3000	≤3000	≤3000	≤3000
<b>Battery Extension Module</b>				
Module	CPS EBM032050LF-H			
Rated Charge/Discharge Energy(kWh)	5.12			
Dimension (W*D*H,mm)	770*178*410			
Weight(kg)	56			
EOL(%)	70			
<b>Power Control Module</b>				
Model	CPS ECD500			
Operating Voltage Range(V)	80~500V			
Max Charge/Discharge Current(A)	40			
Dimension (W*D*H,mm)	770*178*220			
Weight(kg)	13			

\* The certificates are for reference only. Please consult the local sales staff for detailed certification.