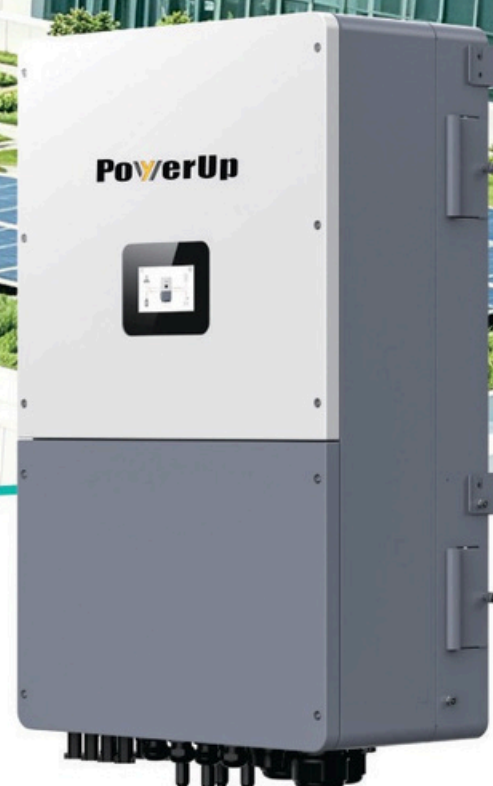


## C&I Energy Storage Inverter Series Three-phase hybrid inverter(R50KH3)

### Key Strengths

- 75kW PV Input & Wide MPPT
- Dual 80A Battery Ports
- IP65, -35~+60°C Operation
- 4 MPPTs for High-Power Modules
- 100% Unbalanced Load Support



### Product Features

#### High PV Capacity:

Max. PV input power: 75kW, wide MPPT voltage range of 150–850V.

#### Flexible Battery:

Features dual battery ports rated at 80A each, compatible with mainstream 314Ah battery cells.

#### Rugged & Reliable:

IP65 protection ensures reliable outdoor performance in temperatures from -35°C to +60°C.

#### Advanced Tracking:

Integrates 4 MPPTs for multiple PV string configurations, with up to 20A\*2 input current per MPPT and compatibility with high-power PV modules.

#### Versatile Load:

Supports 100% unbalanced loads for enhanced flexibility in asymmetric C&I application.

### Technical Parameters

Model	PW-R30KH3	PW-R40KH3	PW-R50KH3
<b>DC input</b>			
Max. PV input power (kW)	45	60	75
Max. PV voltage (V)	1000		
MPPT voltage range (V)	150~850		
Start-up voltage (V)	180		
Max. input current per MPPT (A)	40/40/40/40		
Max. short-circuit current (A)	60/60/60/60		
No. of MPPT trackers	4		
No. of PV strings per MPPT	2		
Rated input voltage (V)	600		
<b>AC output</b>			
Rated AC output active power (kW)	30	40	50
Max. AC output apparent power	33	44	55
Rated AC output current (A)	45.6	60.8	76
Max. AC output current (A)	50.1	66.9	83.6
Max. continuous AC pass-through (A)	200		
Rated grid voltage (V)	380/400		
Power factor	>0.99 (0.8 Leading ~ 0.8 Lagging)		
Grid type	3W+N+PE		
Rated grid frequency (Hz)	50/60		
THDi	<3%		
<b>Battery</b>			
Max. charging / discharging power	33	44	55
Battery voltage range (V)	150~800		
Max. charging / discharging current	80*2		
No. of battery input	2		
Battery type	Lithium-ion		
<b>Emergency power output</b>			
Rated output power (kW)	30	40	50
Max. apparent power (kVA)	33	44	55
Rated output voltage (V)	380/400, 0.85Un-1.1Un		
Back-up switch time (ms)	<10		
Grid type	3W+N+PE		
THDu	<2%		
<b>General data</b>			
Dimensions W*D*H (mm)	530*280*850		
Weight (kg)	73		
Ingress protection	IP65		
Operating temperature range (°C)	-35~60		
Inverter topology	Non-isolated		
Relative humidity	0~100%		
Operating altitude (m)	4000(>2000 power derating)		
Cooling	Forced air cooling		
Noise emission (dB)	≤65		
Installation	Wall mounted type		
<b>Display and communication</b>			
HMI	APP; touch panel		
BMS	RS485,CAN		
EMS/Meter	RS485		
Communication interface	WIFI or 4G or GPRS RS485		