

CSE-RL1 Series

3-6kW Residential Single Phase Hybrid Inverter



Easy-to-install

- Quick & easy-to-install with basic tools.
- Quick setup and commissioning with Solplanet apps.
- Compact wall mount design.

Reliable

- Smart energy management.
- UPS capability - power during blackouts.
- IP66 rated design for outdoor use.

User-Friendly

- User friendly app interface.
- Online monitoring via Wi-Fi and Solplanet apps.
- Easy to connect - battery and smart meter interfaces.

Technical specification:

Technical specification	RL1-3K	RL1-3.6K	RL1-4K	RL1-4.6K	RL1-5K	RL1-6K
Input (PV)						
Max. power(kW)	4.6	4.6	6	6	7	7
Max. DC voltage(V)	550					
MPPT voltage range(V)	125~500					
Max.input current of single MPPT(A)	14					
MPPT tracker/strings	2/1					
AC output						
Rated output power(kVA)	3	3.68	4	4.6	5	6
Max. output current(A)	13	16	17.4	20	21.7	26
Grid voltage/range(V)	230/176~270					
Frequency (Hz)	50 /60					
THDi	0.8lagging-0.8leading					
PF	<3%					
AC output topology	L+N+PE					
Battery						
Battery voltage range(V)	40~58					
Max. charging voltage(V)	58					
Max. charge/discharge current(A)	95/62.2	95/75	95/83.3	95/95.8	95/104.2	95/110
Battery type	lithium /Lead-acid					
Communication interface	CAN/RS485					
EPS output						
Rated power (kVA)	3	3.68	4	4.6	5	6
Rated output voltage(V)	230					
Rated output current(A)	13	16	17.4	20	21.7	26
Rated frequency (Hz)	50 /60					
Automatic switching time (ms)	<20					
THDu	<2%					
Overload capacity	110%, 30S/120%, 10S/150%, 0.02S					
General data						
Battery chage/discharge efficiency	95.0%					
DC Max. efficiency	97.6%					
Europe efficiency	97.0%					
MPPT efficiency	99.9%					
Ingress protection	IP65					
Noise emission (dB)	<35					
Operation temperature	- 25°C~ 60°C					
Cooling	Natural					
Relative humidity	0 ~95% (non-condensing)					
Weight (kg) W * D * H (mm)	2,000m(>2,000 Derating)					
Altitude	550*200*515					
Dimensions	25					
Isolation transformer	No					
Self-consumption(W)	<3					
Display and communication						
Display	LCD					
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes					
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1					
On-grid	IEC/EN 61000-6-1, IEC/EN 61000-6-3					
EMC	South Africa NRS097-2-1:2017, UK G98,G99					