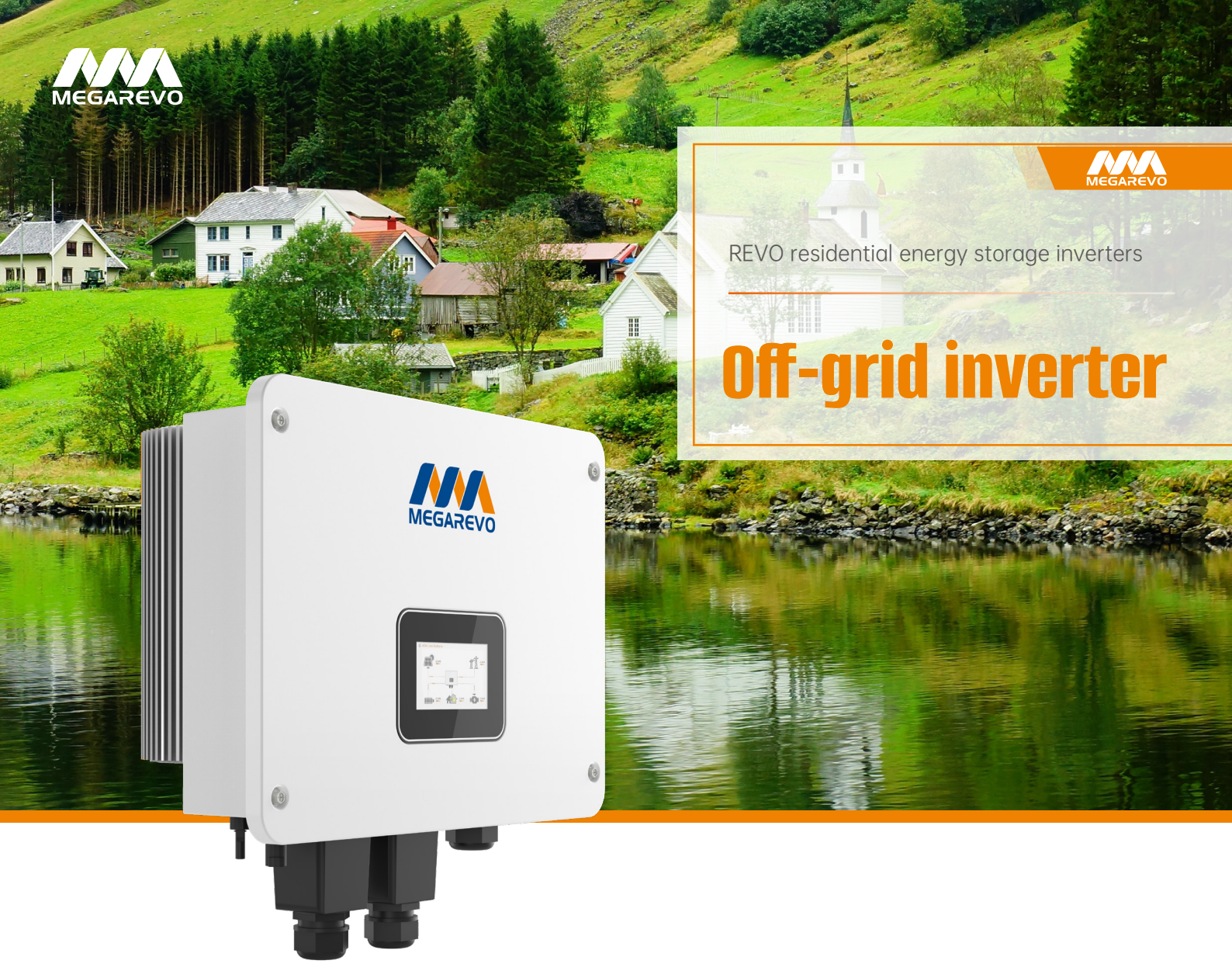


KEY STRENGTHS

- Excellent load compatibility and strong grid adaptability.
- Parallel operation of up to 4 units.
- Compatible with three-phase applications.
- Large touchscreen for intuitive operation.
- 1.5× PV oversizing capability with low-noise operation.
- IP65 protection level, longer product design life.

Model	O3KL1D	O5KL1D	O6KL1D
PV input data			
Max. PV input power (kW)	4.5	7.5	9
No. of MPPT tracker	1		
No. of strings per MPPT trackers	1		
Max. PV input voltage (V)	500		
MPPT voltage range (V)	100~430		
Max. input current per MPPT (A)	32		
Short circuit current per MPPT (A)	37		

Model	O3KL1D	O5KL1D	O6KL1D
Battery data			
Rated voltage (Vdc)		48	
Battery voltage range (V)		40~58	
Max. charging/discharging current (A)	60 / 60	100 / 100	120 / 120
Battery type		Lithium-ion / Lead-acid	
Battery charging strategy		Self-adaption to BMS	
AC output data(back-up)			
Rated output power (kW)	3	5	6
Rated output voltage (V)		230	
Output frequency (Hz)		50 / 60	
Max. apparent output current (A)	13	21.7	26
Max. output over current (A)	15.6	26	31.2
Power factor		1 (0.8 leading~0.8 lagging)	
THDu		<3%	
Switching time (ms)		10	
AC input data(on-grid)			
Rated input voltage (V)		230	
Grid voltage input range (V)		176~270	
Rated grid frequency (Hz)		50 / 60	
THDi		<3%	
Grid type		L+N+PE	
Generator input data			
Max. input power (kW)	3	5	6
Max. input current (A)	13	21.7	26
Protection			
Island protection		Yes	
Insulation resistor detection		Yes	
PV input reverse protection		Yes	
Output over current protection		Yes	
Output short protection		Yes	
Output over voltage protection		Yes	
Output under voltage protection		Yes	
AC/DC surge protection		Yes	
General data			
Max. efficiency		96%	
Operating temperature range (℃)		-25 ~+60	
Relative humidity		5%-95%	
Operating altitude (m)		0~2,000(> 2,000 power derating)	
Ingress protection		IP65	
Weight (kg)		17	
Dimensions W*D*H (mm)		455*200*447	
Cooling		Natural convection	
Noise emission (dB)		<35	
Display		Color screen	
Communication With RS485/Wifi/GPRS/CAN/DRM		Possess / Optional / Optional / Possess / Possess	
Standby loss (W)		<15	
Pollution degree		II	
Inverter topology		Non-isolated	