

PONY Q

RESIDENTIAL ENERGY STORAGE INVERTERS

Split-phase Hybrid Inverter (Battery Low Voltage)



PARAMETER

GENERAL DATA

Model	R5KLNA	R6KLNA	R7K6LNA	R8KLNA	R10KLNA
MPPT efficiency	99.9%				
Europe efficiency	96.5% (PV)				
PV to grid efficiency	97.2% (PV)				
Battery to load efficiency	95.2%				
PV to battery charging efficiency	96.1%				
Grid to battery charging efficiency	95.0%				
Output conduit	25.4 mm				
PV input conduit	25.4 mm				
BAT input conduit	35.4 mm				
Operating temperature range	-25~+60 °C				
Relative humidity	0-95%				
Operating altitude	0-4,000m (Derating above 2,000m altitude)				
Ingress protection	IP65/NEMA 3R				
Built-in breaker	Optional				
Weight	48kg(50kg with breaker)				
Dimensions WxHxD	450x820x240 (mm)				
Cooling	FAN cooling				
Noise emission	38				
Display	LCD, touch panel (optional)				
Communication with BMS/Meter/EMS	RS485,CAN				
Supported communication interface	RS485, WLAN, 4G (optional)				
Self-consumption	< 25W				
Safety	UL1741SA all options, UL16998, CSA 22.2,UL1973,SGS				
EMC	FCC part 15 class B				
Support diesel generator	YES				
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, rule 21 phase I, II, III				

PONY Q

The Power of Possibilities

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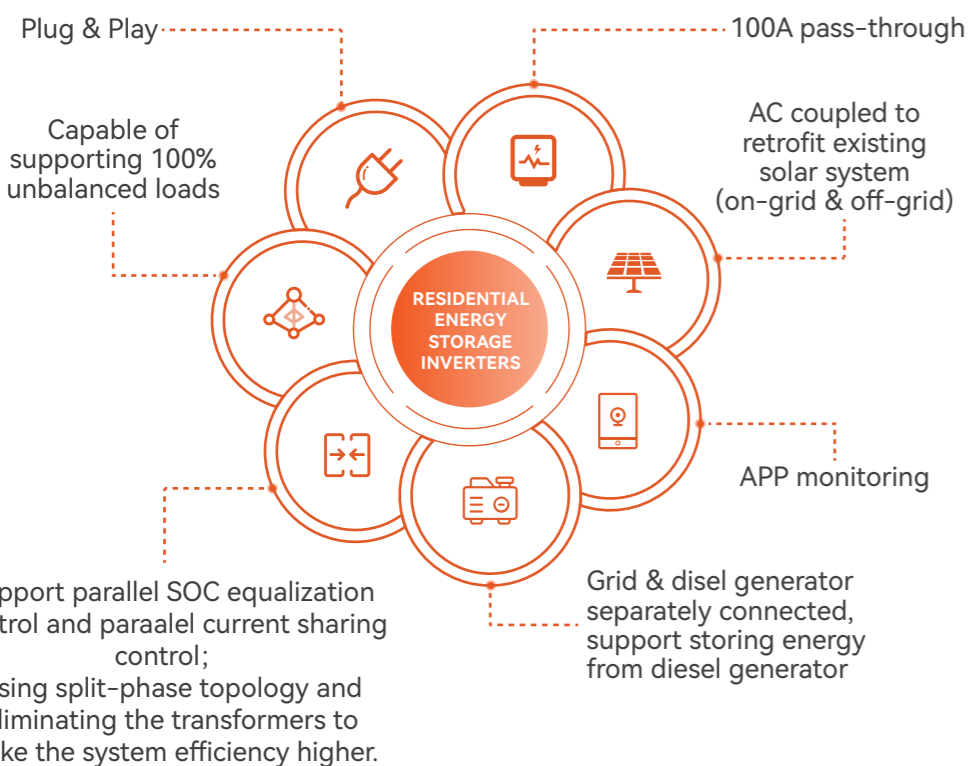
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PONY Q R8KLNA 8.0KW

The PONY Q R8KLNA 8.0KW Split Phase Hybrid inverter is designed to be used for both on-grid and off-grid solar systems. With an 8KW rated output and 12.0KW maximum PV input it perfectly supports 48V low-voltage battery storage systems. The Hybrid feature makes it suitable for on-grid systems without charge controllers and transformers, so it's convenient to install.

FEATURES



PARAMETER

PV INPUT

Model	R5KLNA	R6KLNA	R7K6LNA	R8KLNA	R10KLNA
Max. DC input power (kW)	7.5	9	12	12	15
No. of MPPT trackers	4				
MPPT voltage range (V)	120-500				
MAX. DC input voltage (V)	500				
MAX. input current (A)	14				
MAX. short circuit current (A)	22				

AC OUTPUT (ON GRID)

Nominal output power output to grid (kVA)	5	6	7.6	8	10
MAX. apparent power output to grid (kVA)	5.5	6.6	8.4	8.8	11
Output voltage range (V)	(110-120) / (220-240)split phase, 240V single phase				
Output frequency (Hz)	60(55 to 65)				
Nominal AC output to grid (A)	20.8	25	31.7	33.3	41.7
Max. AC output to grid (A)	22.9	27.5	34.8	36.7	45.8
Max. grid passthrough current (A)	100				
Output THDu	< 3%				

BATTERY INPUT

Nominal voltage (V)	48				
MAX.charging	120	135	190	190	190
Discharging current (A)	120	135	190	190	210
Battery voltage range (V)	40-60				
Battery type	Lithium-ion /Lead-acid				
Charging strategy for Li-Ion battery	Self-adaption to BMS				

AC OUTPUT(BACK-UP)

Model	R5KLNA	R6KLNA	R7K6LNA	R8KLNA	R10KLNA
Nominal. apparent power (kVA)	5	6	7.6	8	10
Max. apparent power (kVA)	5.5	6.6	8.4	8.8	11
Nominal output voltage L-N/L1-L2(V)	120 / 240				
Nominal output frequency (Hz)	60				
Automatic switchover time (ms)	< 20				
Output power factor	0.8 leading-0.8 lagging				
Output THDu	< 2%				

PROTECTION

Grounding detection	Yes
Arc fault protection	Yes
Island protection	Yes
Battery reverse polarity	Yes
Insulation resistor detection	Yes
Residual current monitoring unit	Yes
Output over current protection	Yes
Back-up output short protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes