REGITEC

Single phase hybrid inverter

RHS3~8KTL

MAX 97.6% EFFICIENCY

IP65 PROTECTION

Max. efficiency up to 97.6%

With AC output ranging from 3kW to 8kW

Powerful load adaptability, support multiple loads stable access

Oled display+App, two ways for data checking and management

100~500V super wide battery voltage range, adapt to bigger capacity battery

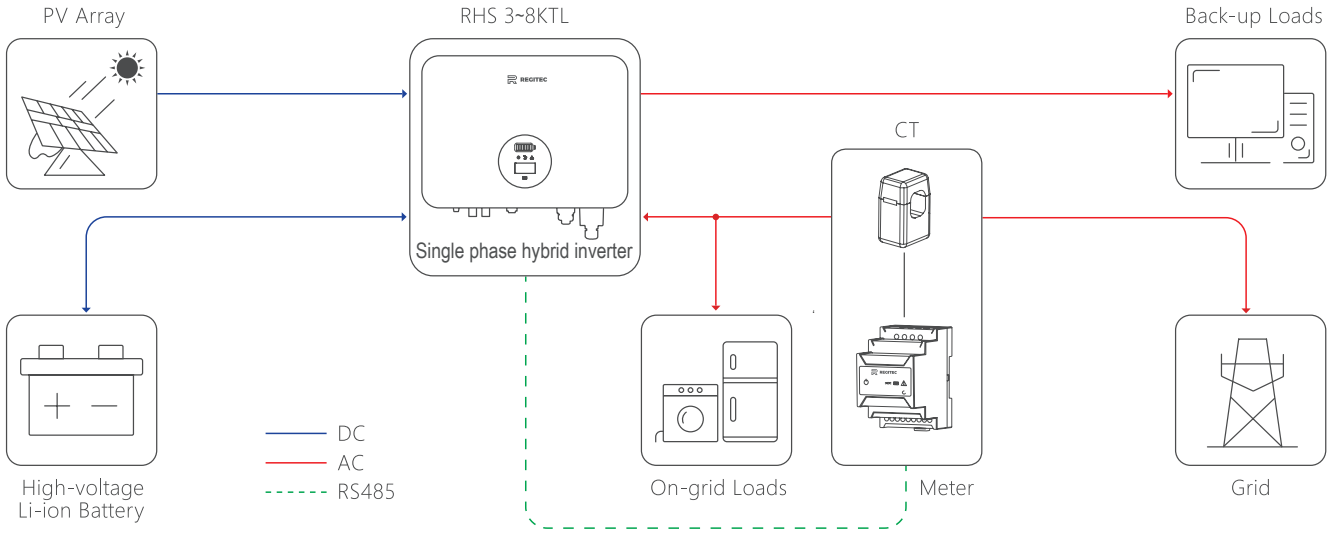
Up to 30A charging and discharging current allows bigger capacity battery accessing and faster charging

EMS

Intelligent EMS management, power dispatching from PV, Battery and Grid is more flexible

UPS

Uninterruptible power supply, switch to off-grid mode within 10ms



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Technical parameters

Single phase: RHS3~8KTL

Model		RHS-3KTL-S	RHS-3.6KTL-S	RHS-4.2KTL	RHS-4.6KTL	RHS-5KTL	RHS-6KTL	RHS-7KTL	RHS-8KTL
PV Input	Max. Input Power (W)	3,900	4,680	5,460	5,980	6,500	7,800	9,100	10,400
	Start-up Voltage (V)	80	80	80	80	80	80	80	80
	Max. DC Input Voltage (V)	600	600	600	600	600	600	600	600
	Rated DC Input Voltage (V)	360	360	360	360	360	360	360	360
	MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550
	No. of MPP Trackers	1	1	2	2	2	2	2	2
	No. of PV Inputs per MPPT	1	1	1/1	1/1	1/1	1/1	1/1	1/1
	Max. Input Current (A)	15	15	15/15	15/15	15/15	15/15	15/15	15/15
	Max. Short-circuit Current (A)	20	20	20/20	20/20	20/20	20/20	20/20	20/20
Battery	Battery Type	Lithium Battery (with BMS)							
	Battery Communication Mode	CAN / RS485							
	Battery Voltage Range (V)	85-500							
	Max. Charge/Discharge Current (A)	30/30							
	Rated Current of Built-in Fuse (A)	63							
Output (Grid)	Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000/4,990①	6,000	7,000	8,000
	Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500/4,990①	6,600	7,700	8,000
	Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500/4,990①	6,600	7,700	8,000
	Max. Input Apparent Power (VA)	6,000②	7,200②	8,400②	9,200②	10,000②	12,000②	12,000②	12,000②
	Max. Charging Power of Battery (W)	3,000	3,600	4,200	4,600	5,000/4,990①	6,000	7,000	8,000
	Rated Output Voltage (V)	L/N/PE, 220/230/240V							
	Rated AC Frequency (Hz)	50/60							
	Max. Output Current (A)	15	18	21	21	25/21.7①	28.7	35	36.3
	Power Factor	0.8 leading ...0.8 lagging							
	Max. Total Harmonic Distortion	<3% @Rated Output Power							
	DCI	<0.5%In							
Output (Back-up)	UPS Switching Time	< 10ms							
	Max. Apparent Output Power (VA)	3,300	3,960	4,600	4,600	5,500/4,990①	8,800	11,000	13,200
	Peak Output Apparent Power (VA)	3,900③, 60s	4,700③, 60s	5,500③, 60s	6,000③, 60s	6,500③, 60s	7,800③, 60s	9,100③, 60s	10,000③, 60s
	Voltage Harmonic Distortion	< 3% @Linear Load							
Efficiency	Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
	European Efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
	Max. Battery Charging Conversion Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%
	Max. Battery Discharge Conversion Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%

Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection Protection	Integrated
Insulation Resistance Protection	Integrated
DC Switch	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Islanding Protection	Frequency Shift, Integrated
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Over Voltage Category	PV : Ⅱ; Main : Ⅲ
Dimensions (mm)	550W*410H*175D
Weight (kg)	26
Protection Degree	IP65
Self-consumption at Night (W)	< 15
Topology	Transformer less
Operating Temperature Range (°C)	-30~60
Relative Humidity (%)	0~100
Operating Altitude (m)	4000 (derating@ > 3000)
Cooling	Natural Convection
Noise Level (dB)	< 25
Display	OLED & LED
Communication	WiFi / LAN (Optional)

Compliance
IEC62109、IEC62116、VDE4105、VDE0126、AS4777、RD1699、NBR16149、IEC617 27、IEC60068、IEC61683、EN50549、EN61000

① The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A.
② Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery.
③ The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is relating to the overload power.

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