

RAYSTECH

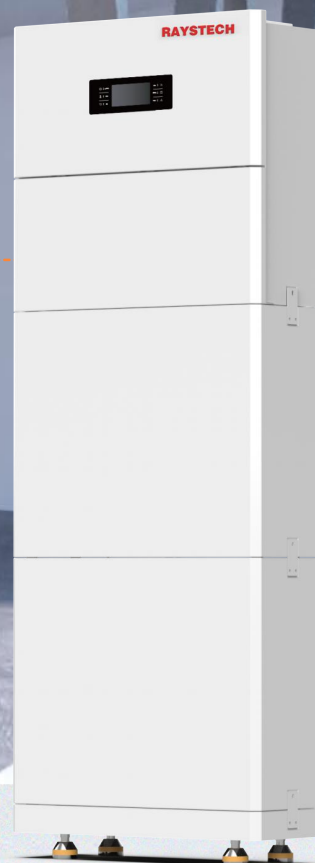
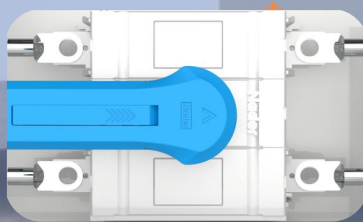
All-in-one 3-10kW Single Phase



INTEGRA

- Working for your comfort -

OFFICIAL AGENT - DISTRIBUTOR
AFTER SALES SERVICE
FOR ITALIAN MARKET



FEATURES

150%

Rated load power under
off-grid conditions is up to 150%
(5kWh off-grid can realize
7.5kWh rated load power)

>10
Hours

Continuous off-grid full
load for over 10 hours

130%

More than 30% cooling
capacity compared
to traditional

<30W

Anti-reflux power
accuracy is less than 30W

99 %

Aftersales contentment of
APP&Web is over 99%

5120
/6140
/14336

5120/6140/14336Wh
battery capacity

199\$

Built-in DC breaker, reducing
\$199 installation cost

>97 %

Discharging efficiency of
battery is over 97%

Technical Specifications

Model	RT- INVT-1P-3kW	RT- INVT-1P-4kW	RT- INVT-1P-5kW	RT- INVT-1P-6kW	RT- INVT-1P-8kW	RT- INVT-1P-10kW
Input (DC)						
Max DC power	4500W	6000W	7500W	9000W	12000W	14000W
Max DC voltage	500 Vd.c.					
MPPT voltage range	100...450 Vd.c.					
Rated PV input voltage	360V(100-500V)					
Full load DC voltage range	200-425V					
PV input current	13A+13A			26A+26A		
Max PV ISC	25A+25A			50A+50A		
Number of MPPT trackers	2					
Number of input string	1+1			2+1		
Battery Input						
Battery type	Li-Lon					
Battery voltage range	40-60V					
Max dis/charge current	80/80A	100/100A	120/120A	150/150A	200/200A	210/210A
External temperature sensor	Yes					
Charging curve	3 Stages/Equalization					
Charge strategy for Li-thium battery	Self-adaption to BMS					
Output(AC)						
Rated AC output active power	3000VA	4000VA	5000VA	6000VA	8000VA	10000VA
Max AC apparent power(AC Output)	3300VA	4400VA	5500VA	6600VA	8800VA	10500VA
AC output rated current	13.1A	17.4A	21.7A	26.1A	34.8A	43.5A
Max AC output current	15A	20A	25A	28.8A	38.5A	45.6A
Max continuous AC passthrough	35A			50A		
Peak power(off frid)	2 times of rated power, 10s					
Power factor adjustment range	0.8 leading to 0.8 lagging					
Power factor	1					
Output frequency and voltage	50/60Hz; L/N/PE 220/230 Vac					
Grid type	Single phase					
Total harmonic distortion(THD)	<0.5%In					
Efficiency						
Max conversion efficiency	97.6%			97.8%		
European efficiency	96.5%			96.6%		
MPPT efficiency	99.9%					
Safety and Protection						
Integrated	Anti-islanding protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection					
Over voltage category	DC Type II/AC Type III					
General Parameters						
Dimension (L*W*H)	600*205*560mm					
Weight	29kg					
Operating temperature range °C	-40°C...+60°C, >45 °C derating					
Degree of protection	IP54					
Cooling concept	Natural convection					
Display	LCD					
Installation Style	Wall/Ground mounting					
Communication	Standard WiFi;GPRS/LAN(optional)					
Warranty	Standard 5 years; 7/10 years optional					
BMS communication	CAN/RS485					
Noise	<30dB					
Certificates and Approvals						

The range of output voltage and frequency may vary depending upon different grid codes.
Specifications are subject to change without advance notice.

Technical Specifications

Model		LFP 5.12kWh	LFP 6.14kWh	LFP 14kWh
Total Energy*		5.1kWh	6.14kWh	14.3kWh
Usable Energy(DC)*		4.6kWh	5.5kWh	12.9kWh
Nominal Dis-/Charge Power		3.0kW	3.7kW	8.6kW
Peak Power(Only Discharge)		6kW for 3s	6kW for 3s	10.8kW for 3s
Constant Current(Only Discharge)		80A	96A	224A
Voltage		48~56Vd.c	48~56Vd.c	48~56Vd.c
Nominal Voltage		51.2Vd.c	51.2Vd.c	51.2Vd.c
Nominal Current		60A	72A	168A
Max Charge Voltage		57.6Vd.c	57.6Vd.c	57.6Vd.c
Weight		45kg	69kg	109kg
Dimension(mm)(L*W*H)		600*205*480mm	600*205*480mm	600*205*680mm
Max Recommended DOD		90%		
Operating Condition		Indoor		
Operating Temperature	Charge	From 0~50 ℃		
	Discharge	From -10~55 ℃		
WIFI Frequency Range		2400MHz~2483MHz		
Humidity		< 60%(No condensed water)		
Over Voltage Category		II		
Cooling Type		Natural cooling		
Case Material		Metal		
Color		Black or White		
Installation		Wall mounting/Ground Installation		
IP Rating		IP 54		
Protective Class		I		
Max Connection Number		2P	2P	1P
Warranty		10 years		
Life Span		>15 years		
Communication		CAN/ RS485		
Protection Mode		Dual hardware protection		
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Safety		Cell UL 1973		
		CE/TUV		
Hazardous Material Classification		9		
Transportation		UN 38.3		

Testing conditions based on temperature 25℃ at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from RAYSTECH 0.2C CC-CV



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