



RUNNER – RS series

- ★ 99.5% MPPT efficiency, 97% conversion efficiency.
- ★ Exclusively designed heat dissipation channel, quieter and more stable operation.
- ★ OLED blue display status information.
- ★ Built-in lithium battery activation function.
- ★ Support lead-acid, lithium iron phosphate and ternary lithium batteries charging.
- ★ Support user-defined, lead-acid and li-ion battery charging.
- ★ Complete protection functions to ensure stable operation for battery system.
- ★ Support PC, wired instrument, and remote App monitoring.
- ★ RJ45 Dual interfaces, support parallel function, integrated management and secondary development.
- ★ CE, FCC, RoHS certification.

Focus on the MPPT Solar Controller
More Professional, More Reliable

Application scene



Home photovoltaic system



Energy storage system



Solar monitoring



Communication base station, etc.

Runner -RS Technical data

Runner -RS Series		RS48L60
Product Category		
MPPT efficiency		≥99.5%
Standby power		1.6W~1.8W
Heat-Dissipating method		Built-in fan for cooling
Lead-acid battery system		12V System: 9VDC~15VDC 36V System: 32VDC~40VDC 24V System: 18VDC~30VDC 48V System: 42VDC~60VDC
Lithium-ion battery system		8VDC~60VDC
Input Characteristics		
Max.PV input voltage(Voc)		150VDC
Min.Vmpp Voltage		Battery voltage + 2V
Start-up charging voltage		Battery voltage + 3V
Low input voltage protection		Battery voltage + 2V
Over voltage protection / Recovery		150VDC/145VDC
Rated PV Power	12V system	840W
	24V system	1680W
	36V system	2520W
	48V system	3360W
Charge Characteristics		
Activation for lithium battery		Standard
Battery type (default setting gel-sealed lead-acid battery)		Sealed(SEL),Gel(GEL),Flooded(FLD), User-defined(USER),Li-ion(LIT)
Rated charge current		60A
Temperature compensation		-3mV/°C/2V
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)
Output voltage stability accuracy		≤±0.2V
LOAD Characteristics		
Load voltage		Same as battery voltage
Rated load current		30A
Load control mode		On/Off , PV voltage control mode, Dual-time control mode, PV + Time control mode
Low voltage protection		Settable
Setting method		PC software / APP / Controller
Display & Communication		
Display		Blue OLED display
Communication		Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring
Other Parameters		
Protections		Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.
Operating ambient temperature		-20°C~+50°C
Storage temperature		-40°C~+75°C
IP(Ingress protection)		IP21
Altitude		0~3000m
Max. connection size		28mm ²
Recommended breaker		≥ 100A
Net weight/Gross weight (kg)		2 / 2.6
Product size /Packing size (mm)		305x185x90/370x218x98