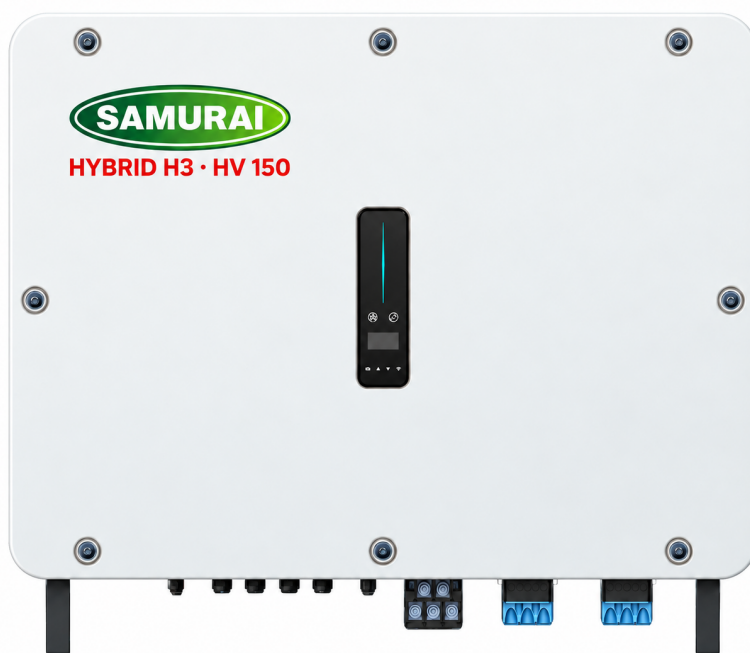




CATALOGUE / ENGLISH

H3-HV-150 HYBRID INVERTERS

Three-phase commercial & industrial hybrid | 25 / 29.9 / 30 / 40 / 50 kW



200%

PV oversizing

150% / 10s

Backup peak

PROUDLY VIETNAMESE

HOTLINE / ZALO 0898.60.3366

HCMC: 58 Raymondienne, Phu My Hung, Tan My Ward

Hanoi: A2.10 BT120, Thanh Ha Urban Area, Binh Minh Commune

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H3-HV-150

Three-phase commercial & industrial hybrid

200%

PV oversizing

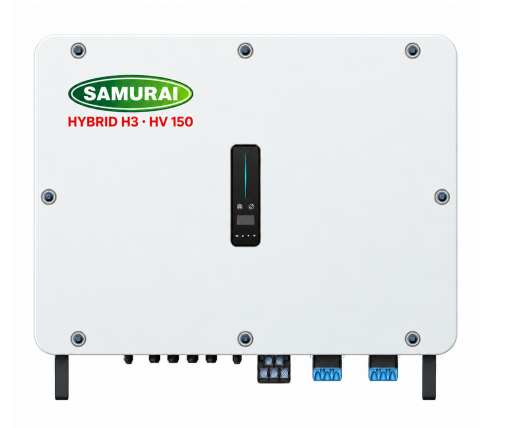
150% / 10s

Backup peak

<10 ms

Transfer

- 01 Expand with up to 10 parallel inverters.
- 02 High 150 A charge/discharge current; up to 200% PV oversizing.
- 03 100% three-phase unbalanced AC output.
- 04 150% peak backup output for 10 seconds.
- 05 Diesel generator connection supported.
- 06 15-minute dynamic pricing, ToU and intelligent peak shaving.
- 07 On/off-grid switching in under 10 ms.
- 08 IP66; Type II SPD on AC and DC; emergency stop function.



Product models

SMR-H3-25-HV-150 / SMR-H3-29.9-HV-150 / SMR-H3-30-HV-150 / SMR-H3-40-HV-150 / SMR-H3-50-HV-150

H3-HV-150 | Complete specifications

Model group: SMR-H3-25-HV-150 / SMR-H3-29.9-HV-150 / SMR-H3-30-HV-150

Parameter	SMR-H3-25-HV-150	SMR-H3-29.9-HV-150	SMR-H3-30-HV-150
PV side			
Max. PV array power (kWp)	50	60	60
Battery side			
Max. charge/discharge power (kW)	25/25	30/30	30/30
Grid side			
Rated output power (kW)	25	29.9	30
Max. output apparent power (kVA)	25	29.9	30
Max. input apparent power (kVA) **	50	60	60
Max. AC input current (A)	75.8	90.9	90.9
Rated output current (A)	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7
Max. output current (A)	37.9	45.3	45.5
Backup side			
Rated output power (kW)	25	29.9	30
Peak output apparent power (kVA)	37.5 @10s	45 @10s	45 @10s
Rated output current (A)	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7
Generator side			
Max. input apparent power (kVA)	30	36	36
Max. input current (A)	45.5	54.5	54.5

H3-HV-150 | Complete specifications

Model group: SMR-H3-40-HV-150 / SMR-H3-50-HV-150

Parameter	SMR-H3-40-HV-150	SMR-H3-50-HV-150
PV side		
Max. PV array power (kWp)	80	100
Battery side		
Max. charge/discharge power (kW)	40/40	50/50
Grid side		
Rated output power (kW)	40	50
Max. output apparent power (kVA)	40	50
Max. input apparent power (kVA) **	80	80
Max. AC input current (A)	121.2	121.2
Rated output current (A)	60.6/58/55.6	75.8/72.5/69.4
Max. output current (A)	60.6	75.8
Backup side		
Rated output power (kW)	40	50
Peak output apparent power (kVA)	60 @10s	75 @10s
Rated output current (A)	60.6/58/55.6	75.8/72.5/69.4
Generator side		
Max. input apparent power (kVA)	48	60
Max. input current (A)	72.7	90.9

H3-HV-150 | Complete specifications

Shared specifications applicable to all models in this family.

Parameter	All models
PV side	
Start-up voltage (V)	135
Max. PV input voltage (V) *	1000
Rated PV input voltage (V)	620
MPPT operating voltage range (V) *	200 ~ 950
Number of MPP trackers	4
Number of strings per MPPT	2
Max. input current per MPPT (A)	40 × 4
Max. short-circuit current per MPPT (A)	50 × 4
Battery side	
Battery type	Lithium-ion
Battery voltage range (V)	150 ~ 840
Number of battery inputs	1
Max. charge/discharge current (A)	150 / 150
Grid side	
Rated AC voltage	3L/N/PE; 220/380; 230/400; 240/415 V
Rated AC frequency (Hz)	50 / 60
THDi at rated power	<3%
Power factor	0.8 leading to 0.8 lagging
Backup side	
On/off-grid switching time (ms)	<10
Rated output voltage	3L/N/PE; 220/380; 230/400; 240/415 V
Rated output frequency (Hz)	50 / 60
THDv at linear load	<3%
Generator side	
Rated AC voltage	3L/N/PE; 220/380; 230/400; 240/415 V

Parameter	All models
Rated AC frequency (Hz)	50 / 60
Efficiency	
Max. efficiency	97.60%
European efficiency	97.10%
MPPT efficiency	99.90%
Max. battery to AC efficiency	97.50%
Max. PV to battery efficiency	98.50%
Protection	
Integrated protection	DC reverse polarity; battery input reverse connection; insulation resistance; surge protection DC/AC: Type II/II; over-temperature; residual current; anti-islanding; AC over-voltage; overload; AC short-circuit protection.
General data	
Dimensions W × H × D (mm)	919 × 739 × 305
Ingress protection	IP66
Standby self-consumption (W)	<40
Topology	Transformerless
Noise level (dB)	<65
Operating temperature range (°C)	-30 ~ 60
Relative humidity (%)	0 ~ 100
Weight (kg)	90.5
Max. operating altitude (m)	3000
Over-voltage category	II (PV + Battery), III (Mains)
Cooling	Smart fan
Display	OLED & LED
Communication	CAN, RS485

H3-HV-150 | Conditions & notes

- *: Maximum operating PV input voltage is 950 V; otherwise the inverter is in standby.
 - ** : Maximum input apparent power is grid import used to supply backup loads and charge the battery.
- Values apply to the exact model and configuration in each table. Dimensions are width × height × depth.
Optional functions are not standard equipment.

Built around your project.

PROUDLY VIETNAMESE

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Catalogue & datasheets | Edition 10/2026. Ratings, conditions and features are configuration-specific; this document does not replace installation manuals, certificates or batch warranty documents.