SOLINTEG

Solinteg IntegEco

Intelligent PV-Storage Ecosystem Solutions

Where Solar, Storage, and Intelligence Work as One.

About Solinteg

Solinteg integrates solar power, energy storage, and intelligent management to deliver safe, efficient, and sustainable clean energy worldwide.

With innovation at our core and openness in our approach, we connect technologies, industries, and communities – driving the intelligent transformation of global energy systems.

What is IntegEco?

IntegEco unites solar generation, energy storage, and intelligent management in a seamless ecosystem – delivering reliable, efficient, and sustainable power for diverse applications. Designed for flexibility and scalability, it empowers both homes and businesses to achieve smarter, cleaner energy use.

IntegEco Home
A fully integrated home energy system that maximizes self-consumption, cuts energy costs, and provides uninterrupted power – all through intelligent control.

IntegEco Business
A versatile, high-performance solution designed for multiple scenarios – from commercial buildings and farms to schools and off-grid communities – delivering sustainable, cost-efficient, and resilient clean energy.

IntegEco Home

Smart Energy for Modern Living

Smart PV-Storage-Charging Home
PV-Diesel Hybrid Home
Parallel Hybrid Home with Generator
Parallel Hybrid Home
AC-Coupled Upgrade Home
Off-Grid Solar Home
Battery-Ready Solar Home

Energy Independence

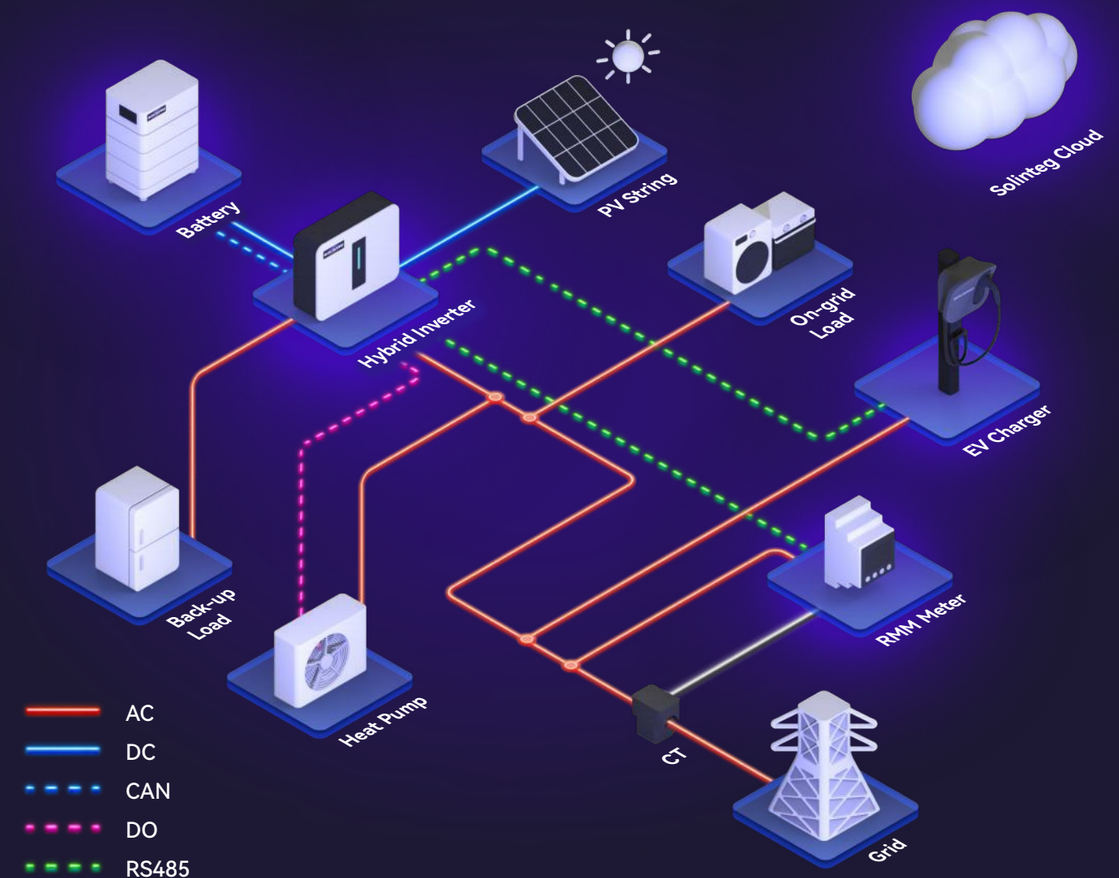
Smart Savings

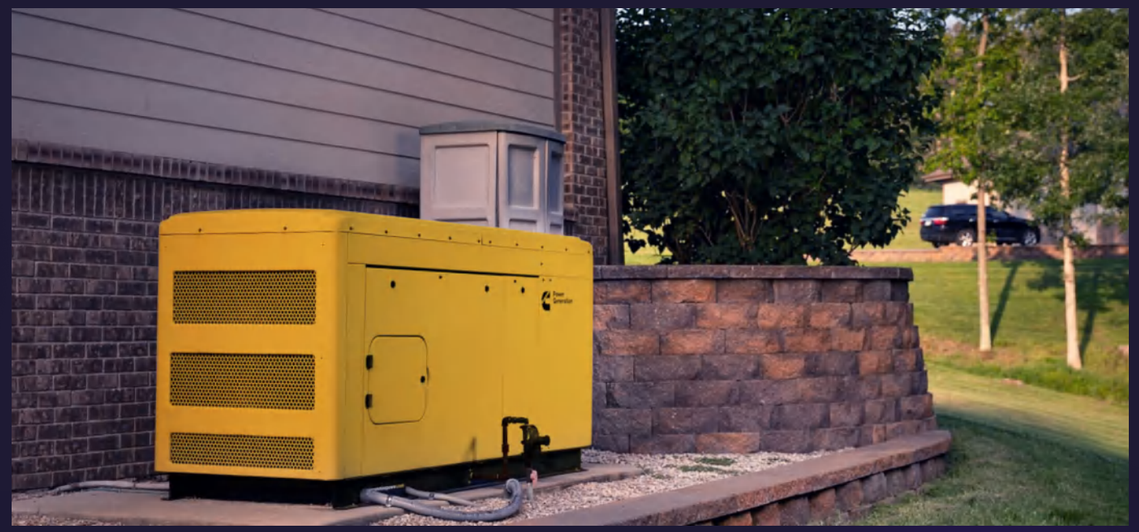
Seamless Backup

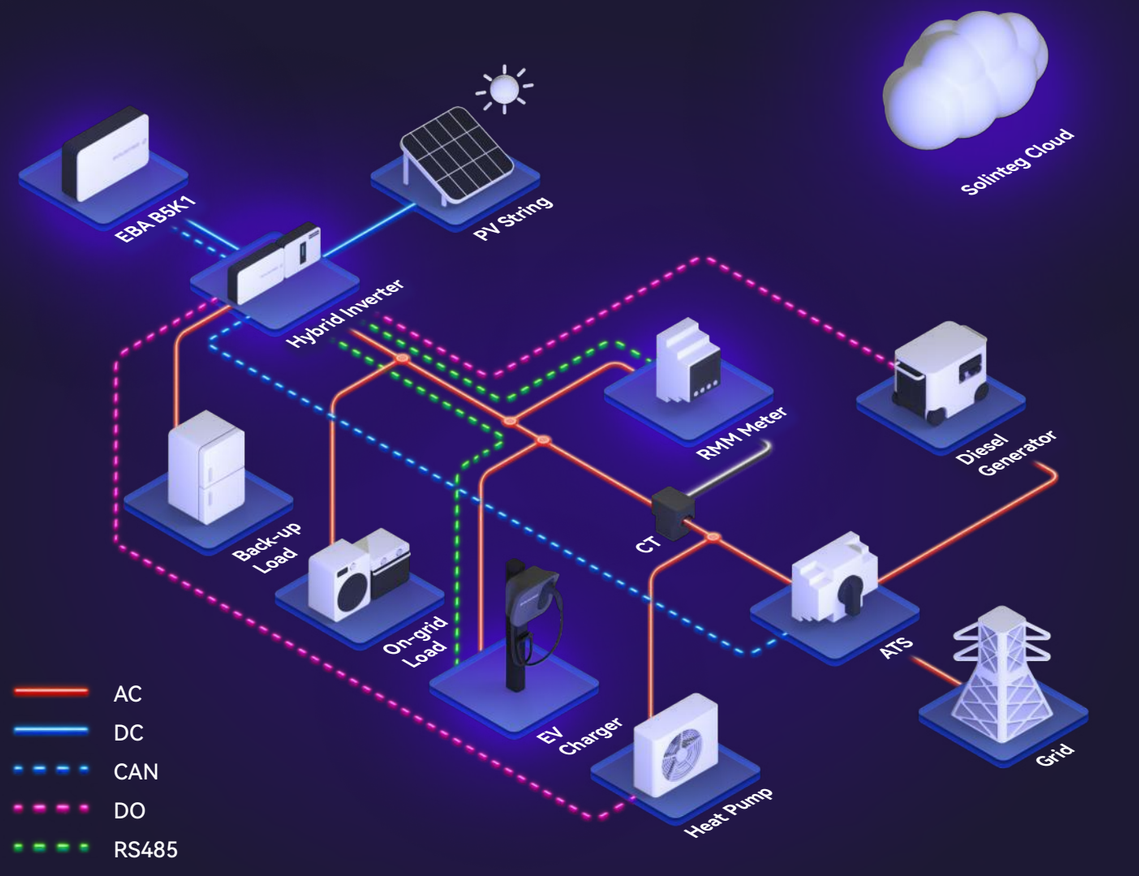
Future-Ready

Smart PV-Storage-Charging Home

Solar + battery + EV charging + smart load control in one system





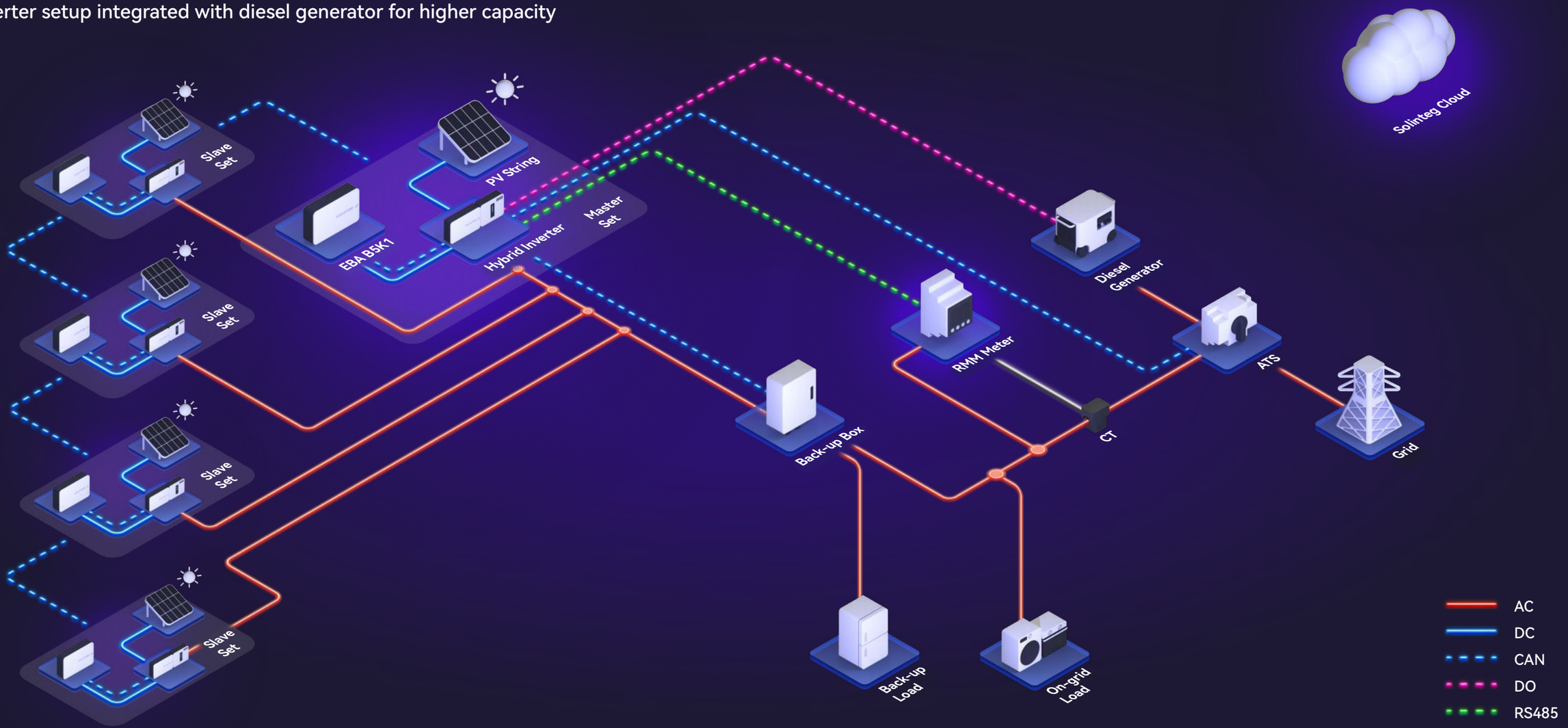


PV-Diesel Hybrid Home

Solar power with diesel generator backup for uninterrupted supply

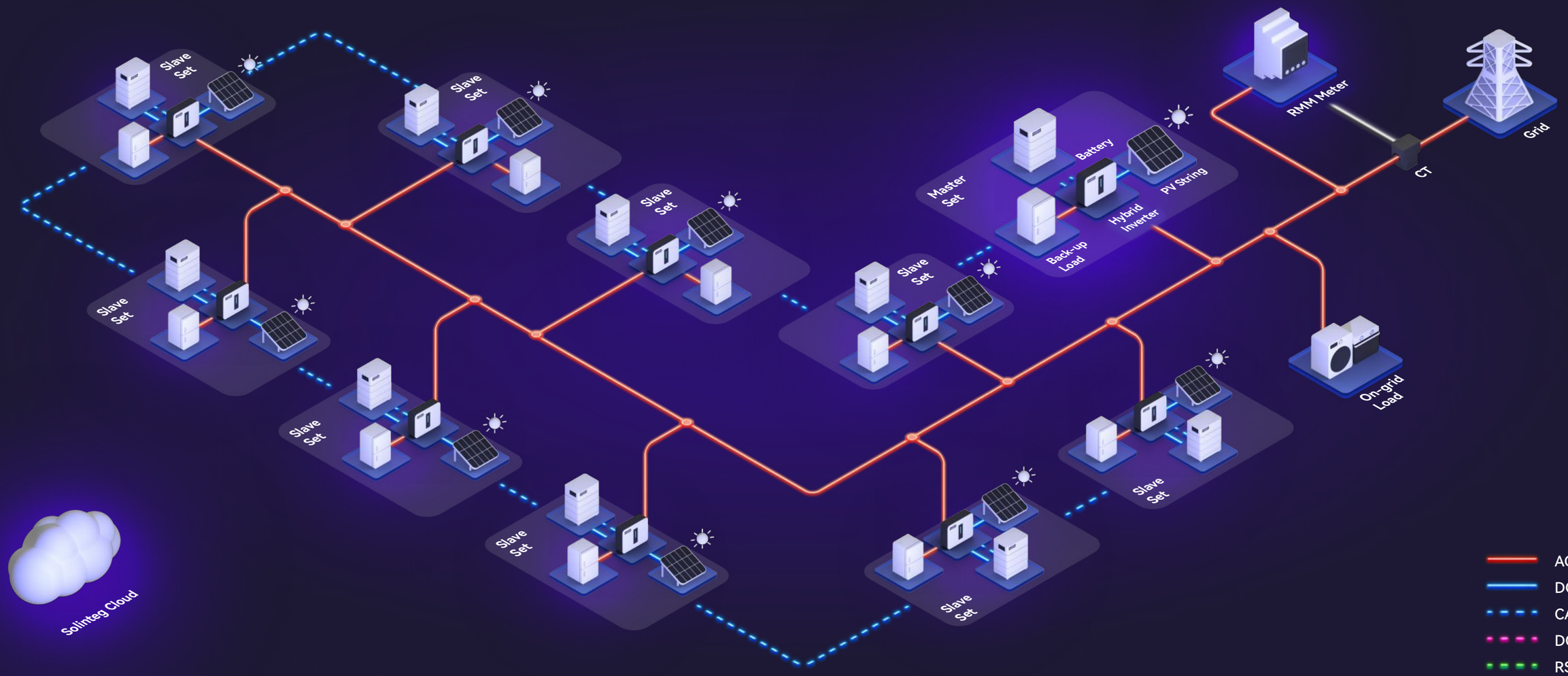
Parallel Hybrid Home with Generator

Multi-inverter setup integrated with diesel generator for higher capacity



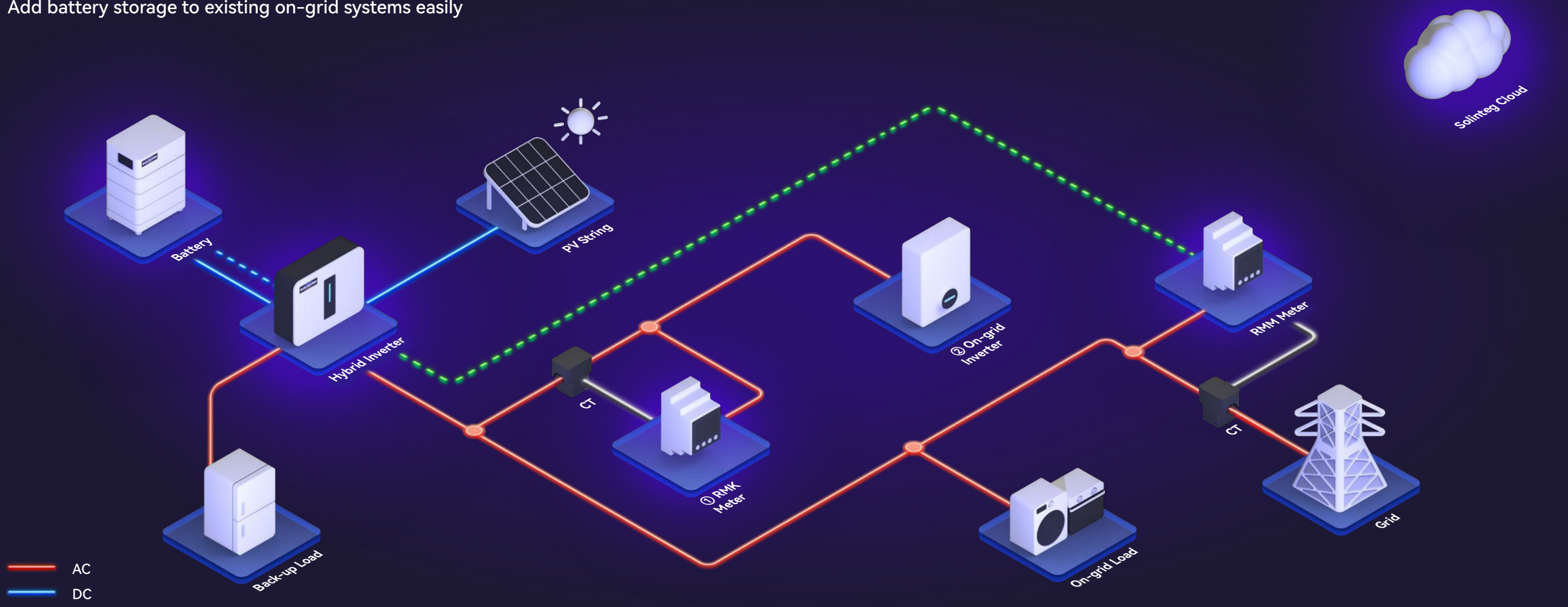
Parallel Hybrid Home

Multi-inverter setup integrated for higher capacity



AC-Coupled Upgrade Home

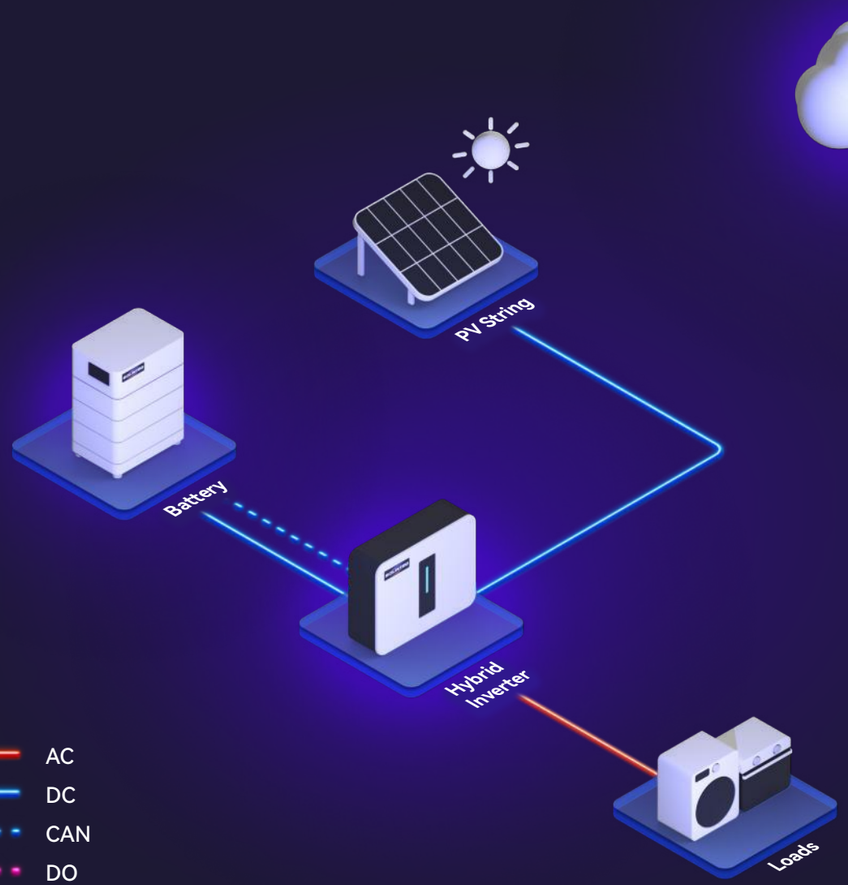
Add battery storage to existing on-grid systems easily

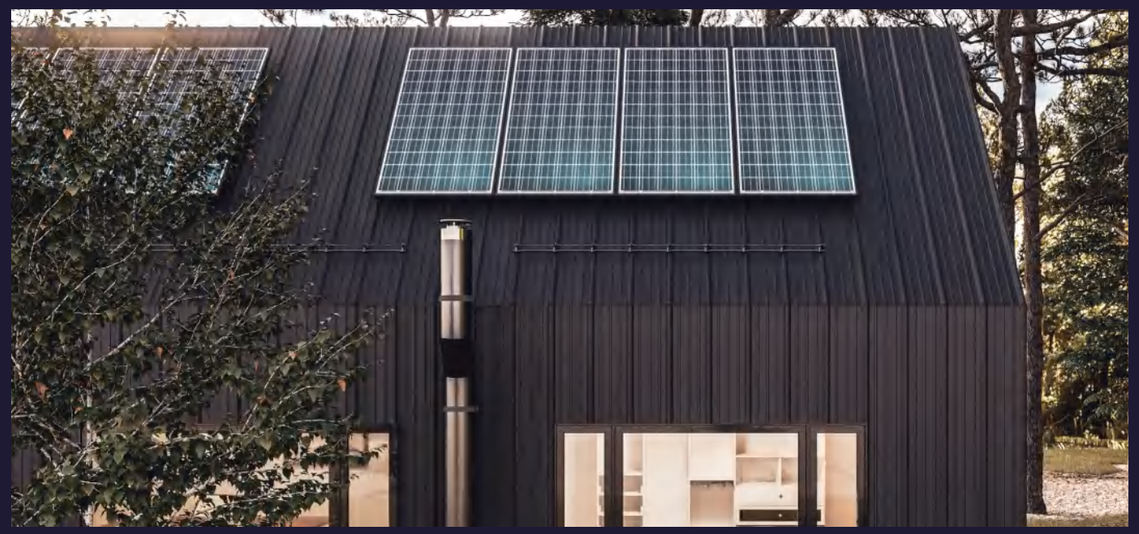


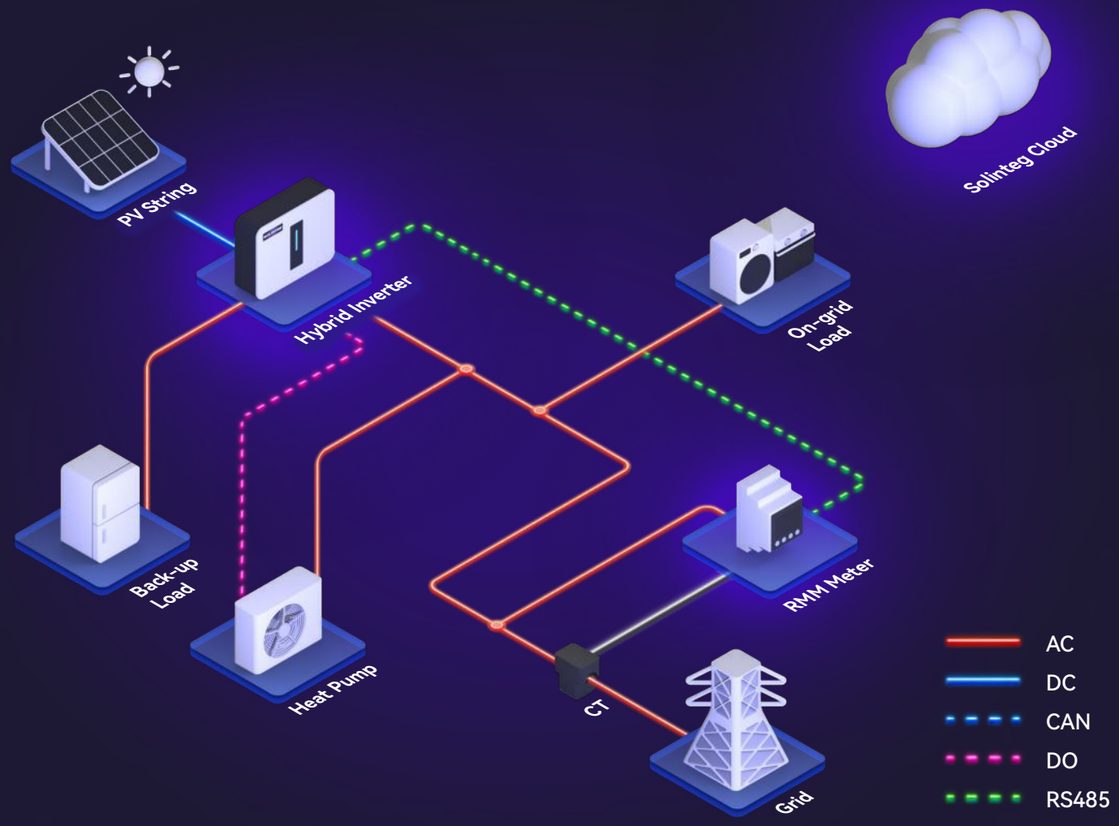
① ② If using the Solinteg on-grid inverter, the meter can be replaced with a data logger + RMM.

Off-Grid Solar Home

Complete independence with no grid connection







Battery-Ready Solar Home

Install PV now, add storage later as needs grow

IntegEco Business

Versatile Clean Energy for Diverse Commercial Needs

PV-Storage-Charging Hub
Solar + Diesel Backup
Parallel Hybrid with Generator
AC-Coupled Storage Upgrade
Off-Grid Power Solution
Storage-Only for Peak Shaving & Frequency Regulation

Built for Challenges

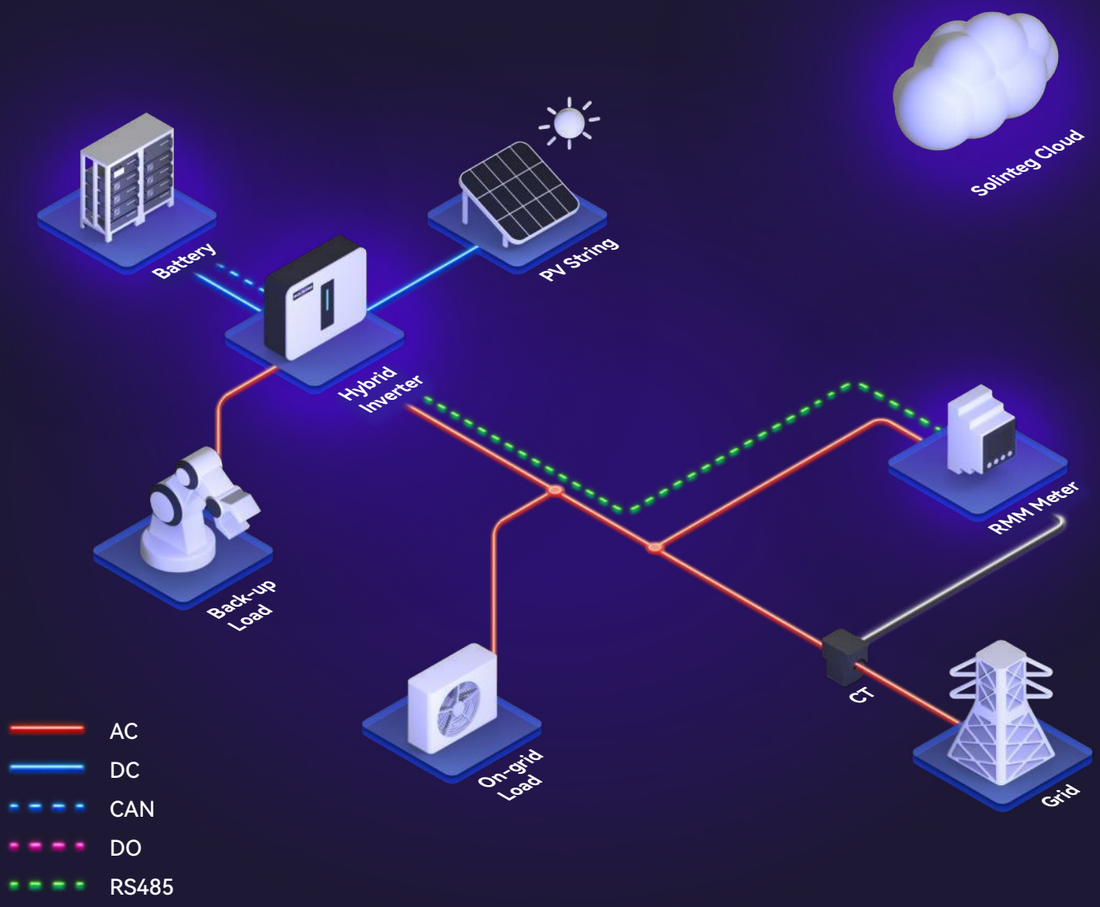
Engineered for Savings

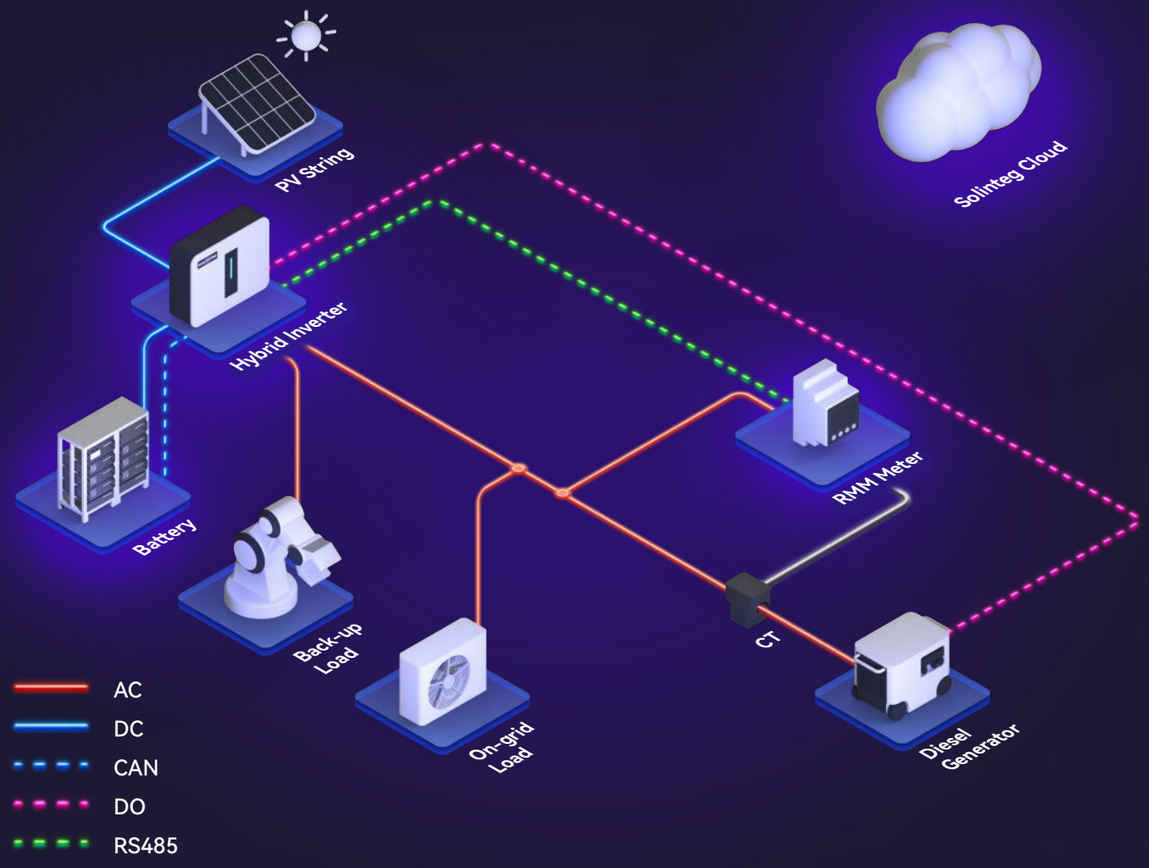
Committed to Sustainability

Designed for Reliability

PV-Storage-Charging Hub

Solar, battery, and EV charging integration for commercial sites



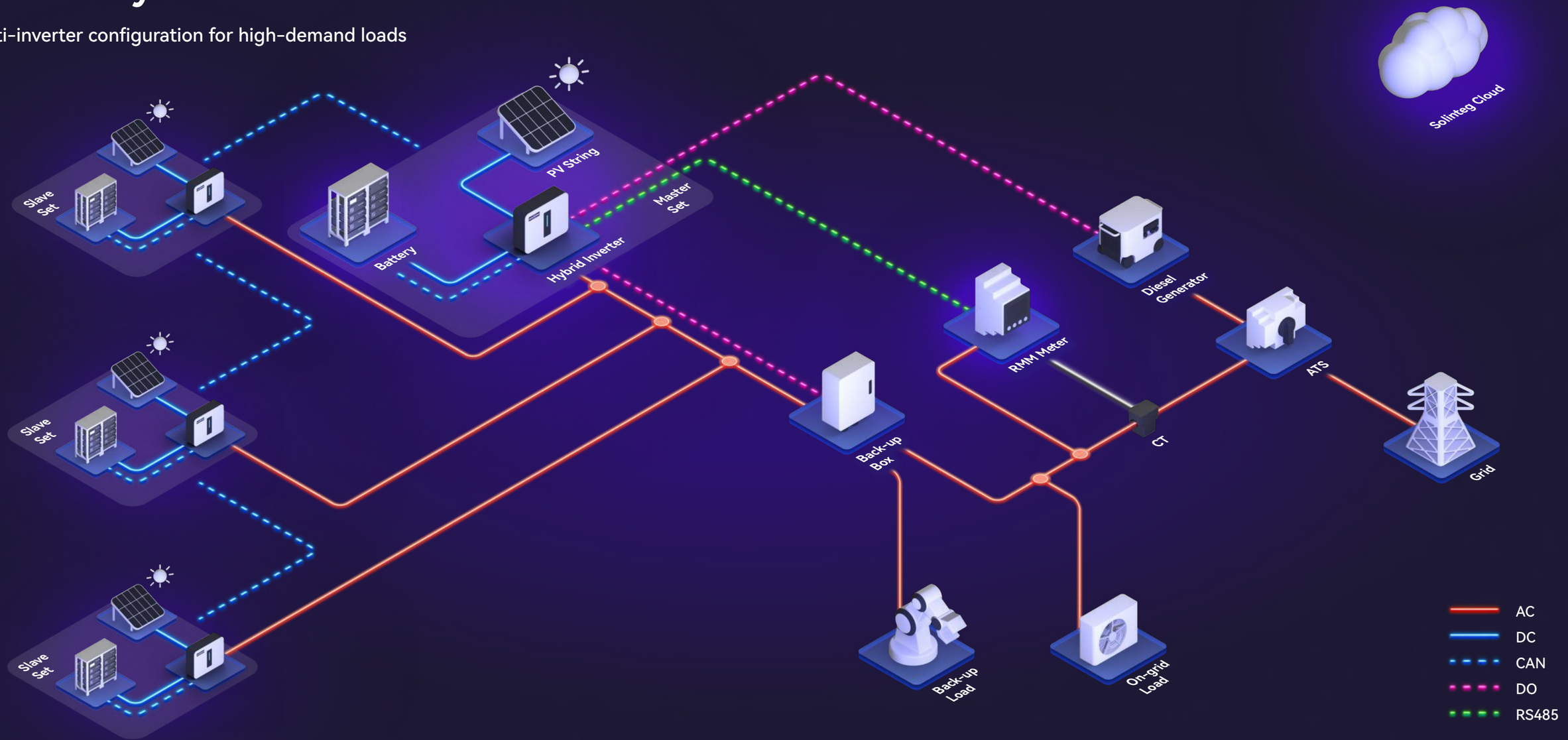


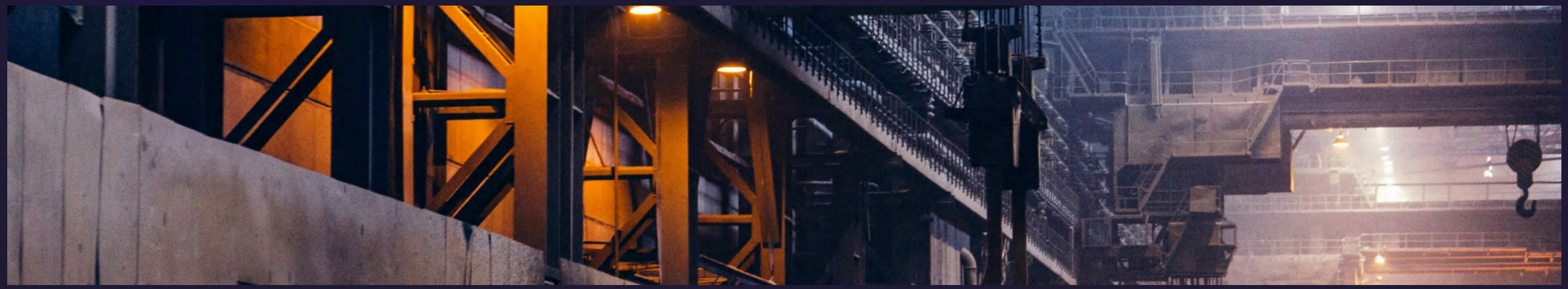
Solar + Diesel Backup

Hybrid system with generator support for continuous operation

Parallel Hybrid with Generator

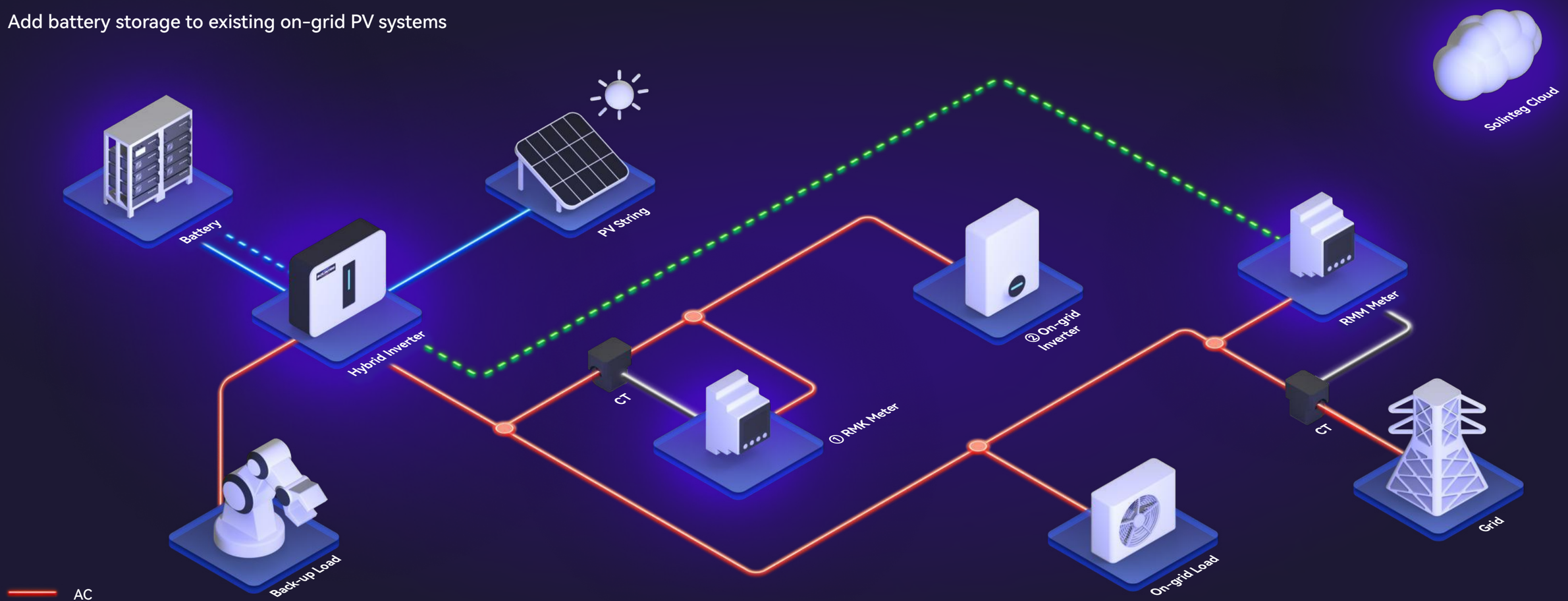
Multi-inverter configuration for high-demand loads





AC-Coupled Storage Upgrade

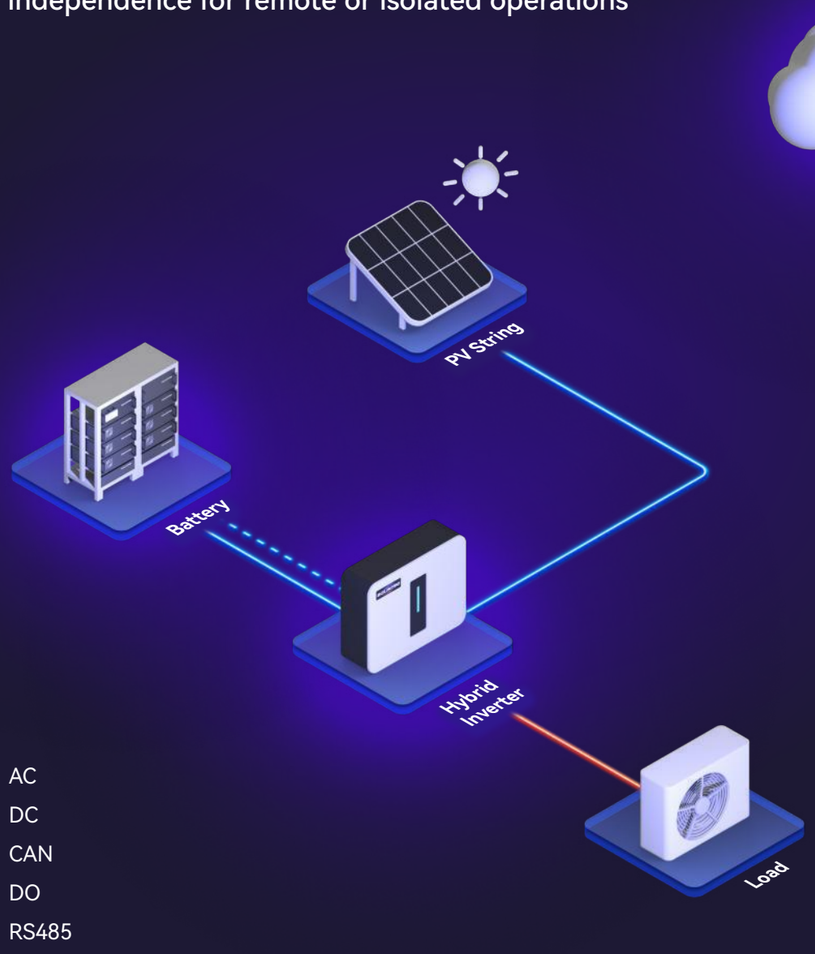
Add battery storage to existing on-grid PV systems

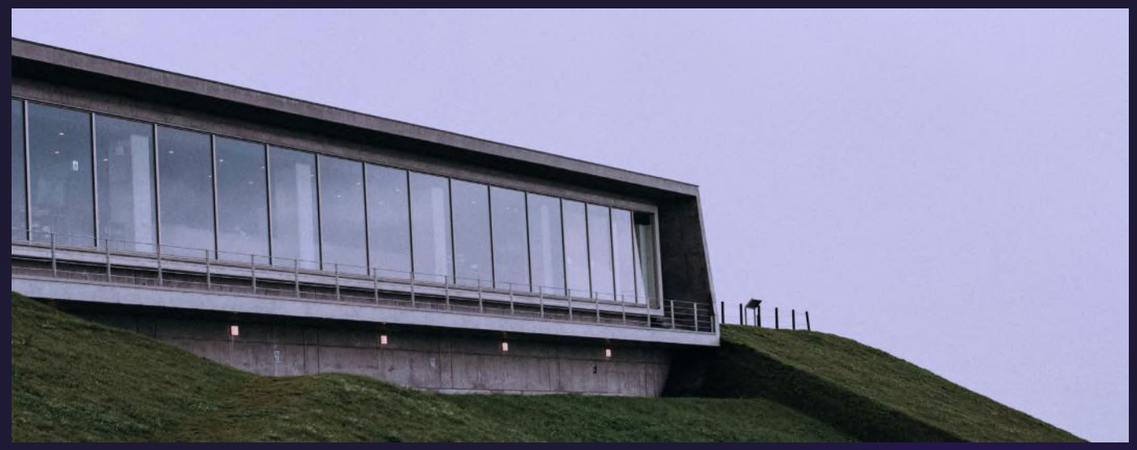


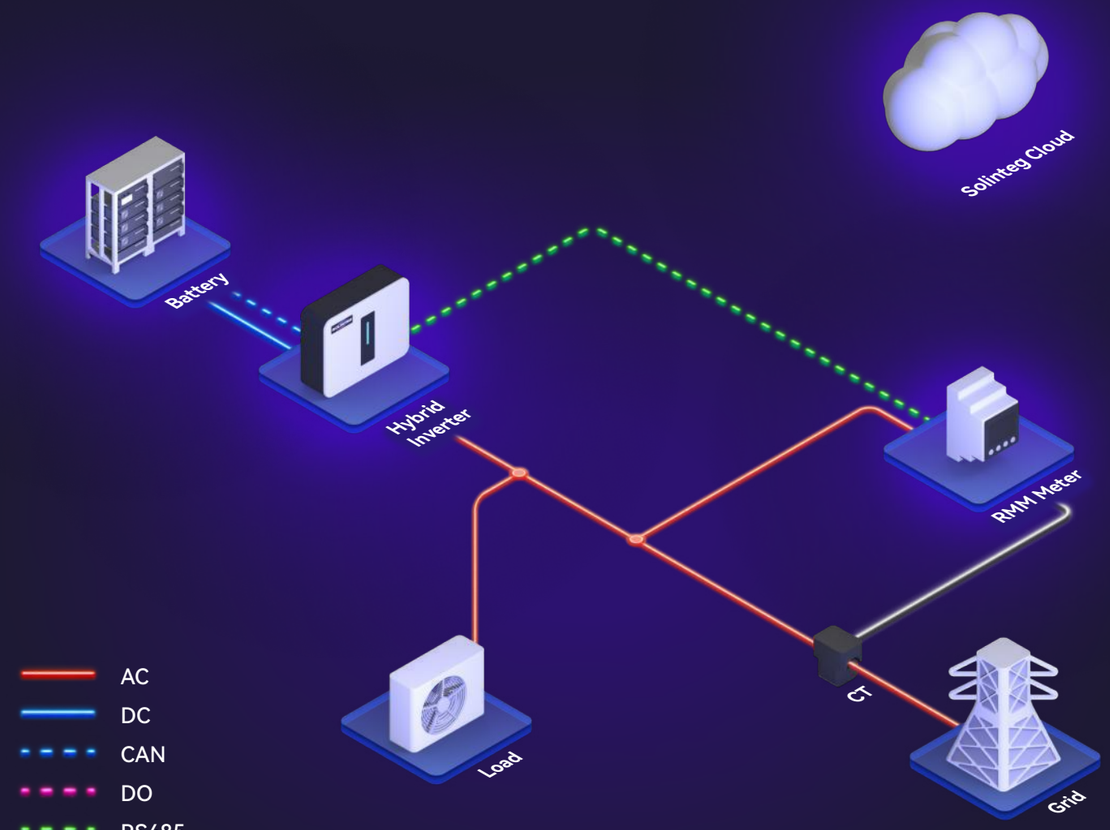
① ② If using the Solinteg on-grid inverter, the meter can be replaced with a data logger + RMM.

Off-Grid Power Solution

Energy independence for remote or isolated operations





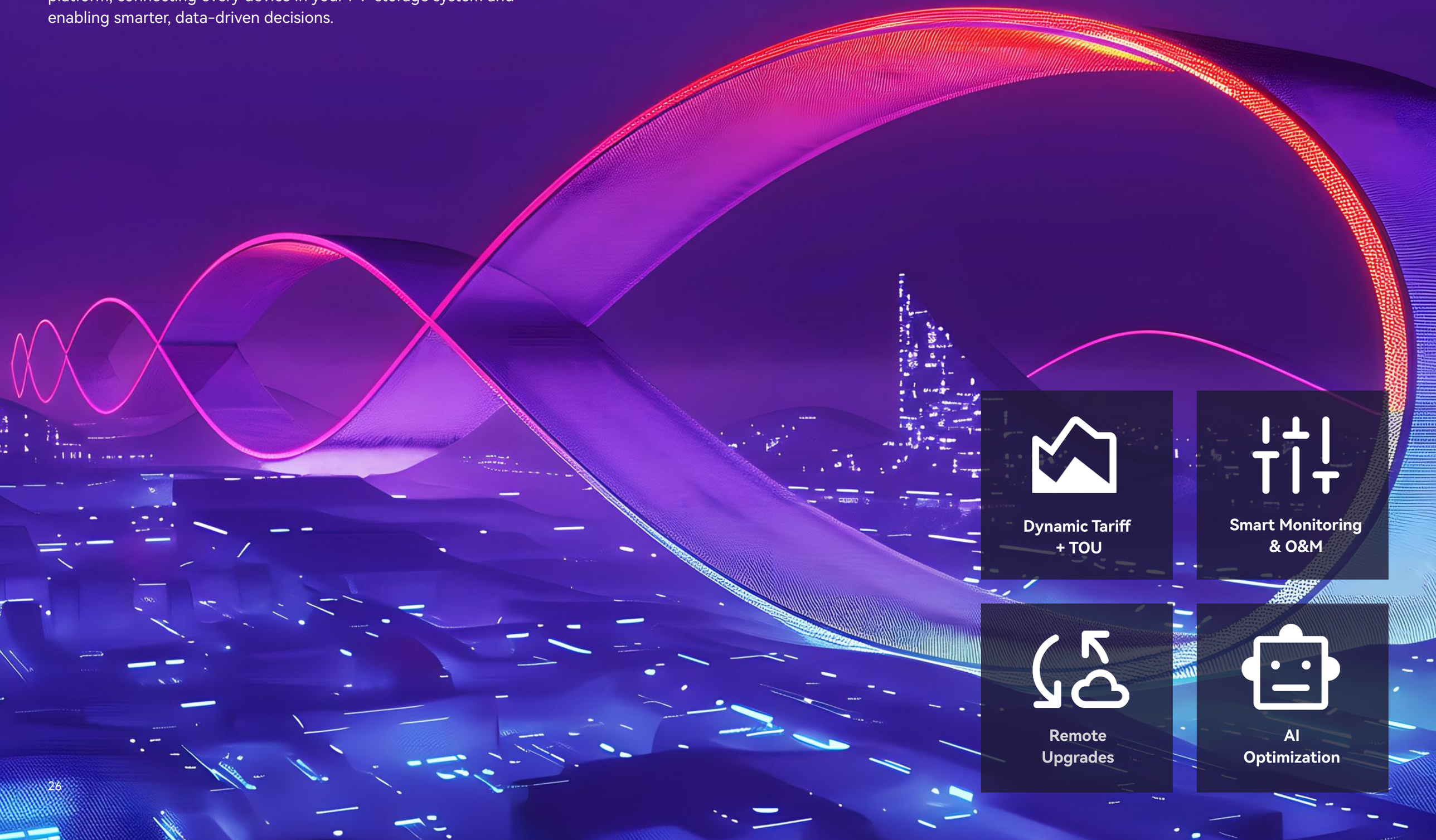


Storage-Only for Peak Shaving & Frequency Regulation

Battery systems providing load management and grid services without PV

IntegHub

IntegHub is Solinteg's intelligent monitoring and energy management platform, connecting every device in your PV-storage system and enabling smarter, data-driven decisions.



Dynamic Tariff + TOU

Smart Monitoring & O&M

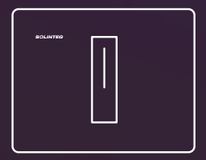
Remote Upgrades

AI Optimization

Datasheets

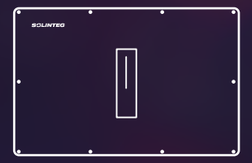
Integ M Hybrid Inverter

MHS 3-8kW

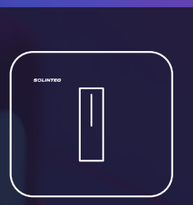


MHT 4-12kW

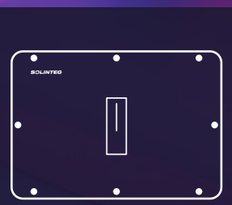
MHT 10-20kW



MHT 25-50kW



M2HS 3-6kW

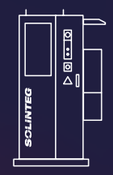


M2HT 25-50kW

IntegOne Home (All-in-One)

HSH 3-6kW /5-10kWh

IntegOne Business (All-in-One)



PTH 25-50kW /64-112kWh

MHS 3-8kW Hybrid Inverter

MHS-3/3.6/4.2/5/6/8K-30

Residential | Single-Phase | HV Battery | 1-2 MPPTs

Models		MHS-3K-30	MHS-3.6K-30	MHS-4.2K-30	MHS-5K-30	MHS-6K-30	MHS-8K-30
PV Side							
Max. PV Array Power	[kWp]	4.8	5.8	6.7	8	9.6	12.8
Max. PV Input Voltage *	[V]	600*					
Rated PV Input Voltage	[V]	360					
Start-up Voltage	[V]	80					
MPPT Operating Voltage Range *	[V]	100-550*					
No. of MPP Trackers		1	1	2	2	2	2
No. of Strings per MPPT		1	1	1/1	1/1	1/1	1/1
Max. Input Current per MPPT	[A]	15	15	15/15	15/15	15/15	15/15
Max. Short-circuit Current per MPPT	[A]	20	20	20/20	20/20	20/20	20/20
Battery Side							
Battery Type		Lithium-ion					
Battery Voltage Range	[V]	85-450					
No. of Battery Input		1					
Max. Charge/Discharge Current	[A]	30/30					
Max. Charge/Discharge Power	[kW]	3/3	3.6/3.6	4.2/4.2	5/5	6/6	8/8
Grid Side (On-Grid)							
Rated Output Power	[kW]	3	3.6	4.2	5(3)	6	8
Max. Output Apparent Power	[kVA]	3.3	3.96(1)	4.6	5.5(4)	6.6	8
Rated AC Voltage	[V]	L/N/PE; 220/230/240V					
Rated AC Frequency	[Hz]	50/60					
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	22.7/21.7/20.8	27.3/26.1/25	36.3/34.8/33.3
Max. Output Current	[A]	15	18(2)	21	25	28.7	36.3
Power Factor		0.8 leading ...0.8 lagging					
THDi (@Rated Power)		<3%					
Max. Input Apparent Power **	[kVA]	6	7.2	8.4	10	10	12
Rated AC Voltage	[V]	L/N/PE; 220/230/240V					
Rated AC Frequency	[Hz]	50/60					
Max. AC Input Current	[A]	27.3	32.7	38.2	45.5	45.5	54.5
Back-up Side (Off-Grid)							
Rated Output Power	[kW]	3.0	3.6	4.2	5.0	6.0	8.0
Peak Output Apparent Power	[kVA]	5.46@10s	5.46@10s	5.46@10s	7.8@10s	7.8@10s	10.4@10s
Rated Output Voltage	[V]	L/N/PE; 220/230/240V					
Rated Output Frequency	[Hz]	50/60					
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	22.7/21.7/20.8	27.3/26.1/25	36.3/34.8/33.3
On/Off-grid Switching Time	[ms]	<10ms					
THDv (@Linear Load)		<3%					
Efficiency							
MPPT Efficiency		99.90%					
Max. Efficiency		97.60%					
European Efficiency		97.00%					
Protection							
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection					
General Data							
Dimensions	[W×H×D mm]	534×418×210					
Weight	[KG]	27					
Ingress Protection		IP65					
Standby Self-consumption	[W]	<15					
Topology		Transformerless					
Operating Temperature Range	[℃]	-30~60					
Relative Humidity	[%]	0~100					
Max. Operation Altitude	[m]	3000					
Over Voltage Category		II(PV+Battery), III(Mains)					
Cooling		Natural Convection					
Noise Level	[dB]	<25					
Display		LED & OLED					
Communication		CAN, RS485					

* PV Max. input voltage is 550V without battery, or 500V with battery, otherwise inverter will be waiting;
** Max apparent power from the grid means the maximum power imported from the utlity grid used to satisfy the backup loads and charge the battery;
(1) G98: 3.68kVA; (2) G98: 16.00A; (3) VDE-AR-N 4105: 4.6kW; (4) VDE-AR-N 4105: 4.60kVA

MHT 4-12kW Hybrid Inverter

MHT-4/5/6/8/10/12K-25

Residential | Three Phase | HV Battery | 2 MPPTs

Models		MHT-4K-25	MHT-5K-25	MHT-6K-25	MHT-8K-25	MHT-10K-25	MHT-12K-25
PV Side							
Max. PV Array Power	[kWp]	6.4	8	9.6	10.4	16	19.2
Max. PV Input Voltage *	[V]	1000*					
Rated PV Input Voltage	[V]	620					
Start-up Voltage	[V]	135					
MPPT Operating Voltage Range *	[V]	120-950*	120-950*	120-950*	200-950*	200-950*	200-950*
No. of MPP Trackers		2	2	2	2	2	2
No. of Strings per MPPT		1/1	1/1	1/1	1/1	1/1	1/1
Max. Input Current per MPPT	[A]	15/15	15/15	15/15	15/15	15/15	15/15
Max. Short-circuit Current per MPPT	[A]	20/20	20/20	20/20	20/20	20/20	20/20
Battery Side							
Battery Type		Lithium-ion					
Battery Voltage Range	[V]	135-750					
No. of Battery Input		1					
Max. Charge/Discharge Current	[A]	25/25					
Max. Charge/Discharge Power	[kW]	4/4	5/5	6/6	8/8	10/10	12/12
Grid Side (On-Grid)							
Rated Output Power	[kW]	4	5	6	8	10	12
Max. Output Apparent Power	[kVA]	4.4	5.5	6.6	8.8	11(1)	13.2
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V					
Rated AC Frequency	[Hz]	50/60					
Rated Output Current	[A]	6.1/5.8/5.6	7.6/7.2/6.9	9.1/8.7/8.3	12.1/11.6/11.1	15.2/14.5/13.9	18.2/17.4/16.7
Max. Output Current	[A]	6.7	8.3	10.0	13.3	16.5(2)	20.0
Power Factor		0.8 leading ...0.8 lagging					
THDi (@Rated Power)		<3%					
Max. Input Apparent Power **	[kVA]	8.0	10.0	12.0	16.0	16.5	16.5
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V					
Rated AC Frequency	[Hz]	50/60					
Max. AC Input Current	[A]	12.2	15.2	18.2	24.4	25.0	25.0
Back-up Side (Off-Grid)							
Rated Output Power	[kW]	4	5	6	8	10	12
Peak Output Apparent Power	[kVA]	9@10s	9@10s	9@10s	18@10s	18@10s	18@10s
Rated Output Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V					
Rated Output Frequency	[Hz]	50/60					
Rated Output Current	[A]	6.1/5.8/5.6	7.6/7.2/6.9	9.1/8.7/8.3	12.1/11.6/11.1	15.2/14.5/13.9	18.2/17.4/16.7
On/Off-grid Switching Time	[ms]	<10ms					
THDv (@Linear Load)		<3%					
Efficiency							
MPPT Efficiency		99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
Max. Efficiency		98.10%	98.10%	98.10%	98.20%	98.20%	98.20%
European Efficiency		97.30%	97.30%	97.30%	97.40%	97.40%	97.40%
Protection							
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection					
General Data							
Dimensions	[W×H×D mm]	534×418×210					
Weight	[KG]	26					
Ingress Protection		IP65					
Standby Self-consumption	[W]	<15					
Topology		Transformerless					
Operating Temperature Range	[℃]	-30~60					
Relative Humidity	[%]	0~100					
Max. Operation Altitude	[m]	3000					
Over Voltage Category		II(PV+Battery), III(Mains)					
Cooling		Natural Convection					
Noise Level	[dB]	<25					
Display		LED & OLED					
Communication		CAN, RS485					

* PV Max. input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting;
** Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the batery;
(1) G98: 10.5kVA; (2) G98: 16.00A;

MHT 10-20kW Hybrid Inverter

MHT-10/12/15/20K-40

Commercial | Three Phase | HV Battery | 2 MPPTs

Models		MHT-10K-40	MHT-12K-40	MHT-15K-40	MHT-20K-40
PV Side					
Max. PV Array Power	[kWp]	16	19.2	24	32
Max. PV Input Voltage *	[V]	1000*			
Rated PV Input Voltage	[V]	620			
Start-up Voltage	[V]	135			
MPPT Operating Voltage Range *	[V]	200-950*	200-950*	200-950*	200-950*
No. of MPP Trackers		2	2	2	2
No. of Strings per MPPT		2/2	2/2	2/2	2/2
Max. Input Current per MPPT	[A]	30/30	30/30	30/30	30/30
Max. Short-circuit Current per MPPT	[A]	40/40	40/40	40/40	40/40
Battery Side					
Battery Type		Lithium-lion			
Battery Voltage Range	[V]	135-750			
No. of Battery Input		1			
Max. Charge/Discharge Current	[A]	40/40			
Max. Charge/Discharge Power	[kW]	10/10	12/12	15/15	20/20
Grid Side (On-Grid)					
Rated Output Power	[kW]	10	12	15	20
Max. Output Apparent Power	[kVA]	11(1)	13.2	16.5	22.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated AC Frequency	[Hz]	50/60			
Rated Output Current	[A]	15.2/14.5/13.9	18.2/17.4/16.7	22.7/21.7/20.8	30.3/29/27.8
Max. Output Current	[A]	16.5(2)	20.0	25.0	33.5
Power Factor		0.8 leading ...0.8 lagging			
THDi (@Rated Power)		<3%			
Max. Input Apparent Power **	[kVA]	20.0	24.0	30.0	30.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated AC Frequency	[Hz]	50/60			
Max. AC Input Current	[A]	30.4	36.4	45.4	45.4
Back-up Side (Off-Grid)					
Rated Output Power	[kW]	10	12	15	20
Peak Output Apparent Power	[kVA]	18@10s	18@10s	24@10s	24@10s
Rated Output Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated Output Frequency	[Hz]	50/60			
Rated Output Current	[A]	15.2/14.5/13.9	18.2/17.4/16.7	22.7/21.7/20.8	30.3/29/27.8
On/Off-grid Switching Time	[ms]	<10ms			
THDv (@Linear Load)		<3%			
Efficiency					
MPPT Efficiency		99.90%			
Max. Efficiency		98.40%			
European Efficiency		97.50%			
Protection					
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection			
General Data					
Dimensions	[W×H×D mm]	534×418×210			
Weight	[KG]	28	28	31	31
Ingress Protection		IP65			
Standby Self-consumption	[W]	<15			
Topology		Transformerless			
Operating Temperature Range	[°C]	-30~60			
Relative Humidity	[%]	0~100			
Max. Operation Altitude	[m]	3000			
Over Voltage Category		II(PV+Battery), III(Mains)			
Cooling		Smart Fan			
Noise Level	[dB]	<40			
Display		LED & OLED			
Communication		CAN, RS485			

* PV Max. input voltage is 950V without battery, or 850V with battery, otherwise inverter wil be waiting;
** 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;
(1) G98: 10.5kVA; (2) G98: 16.00A;

MHT 25-50kW Hybrid Inverter

MHT-25/30/36/40/50K-100

Commercial | Three Phase | HV Battery | 4 MPPTs

Models		MHT-25K-100	MHT-30K-100	MHT-36K-100	MHT-40K-100	MHT-50K-100
PV Side						
Max. PV Array Power	[kWp]	40	48	57.6	64	80
Max. PV Input Voltage *	[V]	1000*				
Rated PV Input Voltage	[V]	620				
Start-up Voltage	[V]	135				
MPPT Operating Voltage Range *	[V]	200-850*	200-850*	200-850*	200-850*	200-850*
No. of MPP Trackers		4	4	4	4	4
No. of Strings per MPPT		2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2
Max. Input Current per MPPT	[A]	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
Max. Short-circuit Current per MPPT	[A]	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
Battery Side						
Battery Type		Lithium-lion				
Battery Voltage Range	[V]	135-750				
No. of Battery Input		1				
Max. Charge/Discharge Current	[A]	100/100				
Max. Charge/Discharge Power	[kW]	25/25	30/30	36/36	40/40	50/50
Grid Side (On-Grid)						
Rated Output Power	[kW]	25.0	30.0	36.0	40.0	50.0
Max. Output Apparent Power	[kVA]	27.5	33(1)	39.6	44.0	55.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency	[Hz]	50/60				
Rated Output Current	[A]	37.9/36.2/34.7	45.5/43.5/41.7	54.5/52.1/50	60.6/58/55.6	75.8/72.5/69.4
Max. Output Current	[A]	42.0	50(2)	60.0	66.0	83.0
Power Factor		0.8 leading ...0.8 lagging				
THDi (@Rated Power)		<3%				
Max. Input Apparent Power **	[kVA]	30.0	36.0	43.5	48.0	60.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency	[Hz]	50/60				
Max. AC Input Current	[A]	45.5	54.5	65.9	72.7	90.9
Back-up Side (Off-Grid)						
Rated Output Power	[kW]	25.0	30.0	36.0	40.0	50.0
Peak Output Apparent Power	[kVA]	33.75 @10s	40.5 @10s	48.6 @10s	54 @10s	67.5 @10s
Rated Output Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Output Frequency	[Hz]	50/60				
Rated Output Current	[A]	37.9/36.2/34.7	45.5/43.5/41.7	54.5/52.1/50	60.6/58/55.6	75.8/72.5/69.4
On/Off-grid Switching Time	[ms]	<10ms				
THDv (@Linear Load)		<3%				
Generator Side						
Max. Input Apparent Power	[kVA]	30	36	43.5	48	60
Rated Input Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Input Frequency	[Hz]	50/60				
Max. Input Current	[A]	45.5	54.5	65.9	72.7	90.9
Efficiency						
MPPT Efficiency		99.90%				
Max. Efficiency		98.80%				
European Efficiency		98.30%				
Protection						
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection				
General Data						
Dimensions	[W×H×D mm]	800*620*300				
Weight	[KG]	72				
Ingress Protection		IP65				
Standby Self-consumption	[W]	<40				
Topology		Transformerless				
Operating Temperature Range	[°C]	-30~60				
Relative Humidity	[%]	0~100				
Max. Operation Altitude	[m]	3000				
Over Voltage Category		II(PV+Battery), III(Mains)				
Cooling		Smart Fan				
Noise Level	[dB]	<65				
Display		LED & OLED				
Communication		CAN, RS485				

* PV Max. input voltage is 850V, otherwise inverter will be waiting;
** Max apparent power from the arid means the maximum power imported from the utiity grid used to satisfy the backup loads and charge the battery;
(1) VDE-AR-N 4105: 30.0kVA; (2) VDE-AR-N 4105: 43.5A;

M2HS 3-6kW Hybrid Inverter

M2HS-3/3.6/4.2/4.6/5/6K-30

Residential | Single-Phase | HV Battery | 1-2 MPPTs

Models		M2HS-3K-30	M2HS-3.6K-30	M2HS-4.2K-30	M2HS-4.6K-30	M2HS-5K-30	M2HS-6K-30
PV Side							
Max. PV Array Power	[kWp]	6	7.2	8.4	9.2	10	12
Max. PV Input Voltage *	[V]	580*					
Rated PV Input Voltage	[V]	360					
Start-up Voltage	[V]	80					
MPPT Operating Voltage Range *	[V]	70-550*					
No. of MPP Trackers		1	2	2	2	2	2
No. of Strings per MPPT		1	1/1	1/1	1/1	1/1	1/1
Max. Input Current per MPPT	[A]	20	20/20	20/20	20/20	20/20	20/20
Max. Short-circuit Current per MPPT	[A]	25	25/25	25/25	25/25	25/25	25/25
Battery Side							
Battery Type		Lithium-ion					
Battery Voltage Range	[V]	85-450					
No. of Battery Input		1					
Max. Charge/Discharge Current	[A]	30/30					
Max. Charge/Discharge Power	[kW]	3/3	3.6/3.6	4.2/4.2	4.6/4.6	5/5	6/6
Grid Side (On-Grid)							
Rated Output Power	[kW]	3	3.6	4.2	4.6	5(3)	6
Max. Output Apparent Power	[kVA]	3	3.6(1)	4.2	4.6	5(4)	6
Rated AC Voltage	[V]	L/N/PE; 220/230/240V					
Rated AC Frequency	[Hz]	50/60					
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	20.9/20/19.2	22.7/21.7/20.8	27.3/26.1/25
Max. Output Current	[A]	13.6	16.4(2)	19.1	20.9	22.7(5)	27.3
Power Factor		0.8 leading ...0.8 lagging					
THDi (@Rated Power)		<3%					
Max. Input Apparent Power **	[kVA]	6	7.2	8.4	9.2	10	10
Rated AC Voltage	[V]	L/N/PE; 220/230/240V					
Rated AC Frequency	[Hz]	50/60					
Max. AC Input Current	[A]	27.3	32.7	38.2	41.8	45.5	45.5
Back-up Side (Off-Grid)							
Rated Output Power	[kW]	3.0	3.6	4.2	4.6	5.0	6.0
Peak Output Apparent Power	[kVA]	5.8 @10s	5.8 @10s	8.4 @10s	8.4 @10s	8.4 @10s	8.4 @10s
Rated Output Voltage	[V]	L/N/PE; 220/230/240V					
Rated Output Frequency	[Hz]	50/60					
Rated Output Current	[A]	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	20.9/20/19.2	22.7/21.7/20.8	27.3/26.1/25
On/Off-grid Switching Time	[ms]	<10ms					
THDv (@Linear Load)		<3%					
Efficiency							
MPPT Efficiency		99.90%					
Max. Efficiency		97.60%					
European Efficiency		97.10%					
Max. Battery to AC Efficiency		95.60%					
Max. PV to Battery Efficiency		96.90%					
Protection							
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection					
General Data							
Dimensions	[W×H×D mm]	445×400×197					
Weight	[KG]	18	20	20	20	20	20
Ingress Protection		IP65					
Standby Self-consumption	[W]	<15					
Topology		Transformerless					
Operating Temperature Range	[°C]	-30~60					
Relative Humidity	[%]	0~100					
Max. Operation Altitude	[m]	3000					
Over Voltage Category		II(PV+Battery), III(Mains)					
Cooling		Natural Convection					
Noise Level	[dB]	<25					
Display		LED & OLED					
Communication		CAN, RS485					

* PV Max. input voltage is 550V, otherwise inverter will be waiting;
** Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;
(1) G98: 3.68kVA; (2) G98: 16.00A; (3) VDE-AR-N 4105: 4.6kW; (4) VDE-AR-N 4105: 4.60kVA;(5) VDE-AR-N 4105: 21.0A;

M2HT 25-50kW Hybrid Inverter

M2HT-25/29.9/30/40/50K-150

Commercial | Three Phase | HV Battery | 4 MPPTs

Models		M2HT-25K-150	M2HT-29.9K-150	M2HT-30K-150	M2HT-40K-150	M2HT-50K-150
PV Side						
Max. PV Array Power	[kWp]	50	60	60	80	100
Max. PV Input Voltage *	[V]	1000*				
Rated PV Input Voltage	[V]	620				
Start-up Voltage	[V]	135				
MPPT Operating Voltage Range *	[V]	200-950*	200-950*	200-950*	200-950*	200-950*
No. of MPP Trackers		4	4	4	4	4
No. of Strings per MPPT		2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2
Max. Input Current per MPPT	[A]	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
Max. Short-circuit Current per MPPT	[A]	50/50/50/50	50/50/50/50	50/50/50/50	50/50/50/50	50/50/50/50
Battery Side						
Battery Type		Lithium-ion				
Battery Voltage Range	[V]	150-840				
No. of Battery Input		1				
Max. Charge/Discharge Current	[A]	150/150				
Max. Charge/Discharge Power	[kW]	25/25	30/30	30/30	40/40	50/50
Grid Side (On-Grid)						
Rated Output Power	[kW]	25.0	29.9	30.0	40.0	50.0
Max. Output Apparent Power	[kVA]	25.0	29.9	30.0	40.0	50.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency	[Hz]	50/60				
Rated Output Current	[A]	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7	60.6/58/55.6	75.8/72.5/69.4
Max. Output Current	[A]	37.9	45.3	45.5	60.6	75.8
Power Factor		0.8 leading ...0.8 lagging				
THDi (@Rated Power)		<3%				
Max. Input Apparent Power **	[kVA]	50.0	59.8	60.0	80.0	80.0
Rated AC Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency	[Hz]	50/60				
Max. AC Input Current	[A]	75.8	90.6	90.9	121.2	121.2
Back-up Side (Off-Grid)						
Rated Output Power	[kW]	25.0	29.9	30.0	40.0	50.0
Peak Output Apparent Power	[kVA]	37.5 @10s	45 @10s	45 @10s	60 @10s	75 @10s
Rated Output Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Output Frequency	[Hz]	50/60				
Rated Output Current	[A]	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7	60.6/58/55.6	75.8/72.5/69.4
On/Off-grid Switching Time	[ms]	<10ms				
THDv (@Linear Load)		<3%				
Generator Side						
Max. Input Apparent Power	[kVA]	25	29.9	30	40	50
Rated Input Voltage	[V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Input Frequency	[Hz]	50/60				
Max. Input Current	[A]	37.9	45.3	45.5	60.6	75.8
Efficiency						
MPPT Efficiency		99.90%				
Max. Efficiency		97.80%				
European Efficiency		97.20%				
Max. Battery to AC Efficiency		98.50%				
Max. PV to Battery Efficiency		97.50%				
Protection						
Integrated Protection		DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection				
General Data						
Dimensions	[W×H×D mm]	919*739*305				
Weight	[KG]	89				
Ingress Protection		IP66				
Standby Self-consumption	[W]	<40				
Topology		Transformerless				
Operating Temperature Range	[°C]	-30~60				
Relative Humidity	[%]	0~100				
Max. Operation Altitude	[m]	3000				
Over Voltage Category		II(PV+Battery), III(Mains)				
Cooling		Smart Fan				
Noise Level	[dB]	<65				
Display		LED & OLED				
Communication		CAN, RS485				

* PV Max. input voltage is 950V, otherwise inverter will be waiting;
** Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;

IntegOne Home
HSH 3-6kW/5-10kWh

HSH-3/3.6/4.2/4.6/5/6K-5/10kWh

System Model	HSH-3K	HSH-3.6K	HSH-4.2K	HSH-4.6K	HSH-5K	HSH-6K
Rated AC Output Power	3.0	3.6	4.2	4.6	5.0	6.0
Battery Nominal Capacity	5..12	5..12	5..12	5..12	5..12	5..12
Number of Batteries	1	1	1	1	1	1
Max. Charge / Discharge Power	3.0	3.6	4.2	4.6	5.0	6.0
Battery Type	LiFePO4					
Ingress Protection	IP65					
Weight	64.9	66.9				
Dimensions [W×H×D mm]	1125×400×197					
Battery Expansion	2pcs in Parallel(5kWh+5kWh)					
Inverter Model	**M2HS-3K-30**	**M2HS-3.6K-30**	**M2HS-4.2K-30**	**M2HS-4.6K-30**	**M2HS-5K-30**	**M2HS-6K-30**
PV Input						
Start-up Voltage	80	80	80	80	80	80
Max. PV Input Voltage *	580*	580*	580*	580*	580*	580*
Operating Voltage Range *	70-550*	70-550*	70-550*	70-550*	70-550*	70-550*
Rated Power MPP Voltage Range	160-500	95-500	110-500	120-500	130-500	160-500
No. of MPP trackers	1	2	2	2	2	2
Max. PV Input Current	20	20/20	20/20	20/20	20/20	20/20
Battery Side						
Battery Voltage Range	80-450					
Max. Charging/Discharge Current	30					
Grid Side						
Rated Output Power	3.0	3.6	4.2	4.6	5.0	6.0
Max. Output Apparent Power	3.0	3.6	4.2	4.6	5.0	6.0
Max. Input Apparent Power **	6.0	7.2	8.4	9.2	10.0	10.0
Rated Output Voltage	L/N/PE; 220/230/240					
Rated Output Frequency	50/60					
Rated Output Current	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	20.9/20/19.2	22.7/21.7/20.8	27.3/26.1/25
Max. Output Current	13.6	16.4	19.1	20.9	22.7	27.3
Max. Input Current	27.3	32.7	38.2	41.8	45.5	45.5
Power Factor	0.8 leading …0.8 lagging					
Back-up Side						
Rated Output Power	3.0	3.6	4.2	4.6	5.0	6.0
Max. Output Apparent Power	3.0	3.6	4.2	4.6	5.0	6.0
Rated Output Current	13.6/13/12.5	16.4/15.7/15	19.1/18.3/17.5	20.9/20/19.2	22.7/21.7/20.8	27.3/26.1/25
Peak output apparent power	5.8 @10s	5.8 @10s	8.4 @10s	8.4 @10s	8.4 @10s	8.4 @10s
On/Off-grid Switching Time	<10ms					
Efficiency						
Max. Efficiency	97.6%					
European Efficiency	97.1%					
General Data						
Over Voltage Category	PV: II; Main: III					
Dimensions [W×H×D mm]	445×400×197					
Weight	18	20				
Ingress Protection	IP65					
Operating Temperature Range	-30~60					
Cooling	Natural Convection					
Display	OLED & LED					
Communication	CAN, RS485, WiFi/LAN (Optional)					
Battery Model	**EBA-B5K1**					
Nominal Capacity	5.12					
Rated Capacity	20					
Voltage Range	200-292					
Rated Voltage	256					
Usable Energy	4.60					
Charge/Discharge-Rate	1C (Max) / 1C (Steady)					
Cooling	Natural Convection					
Ingress Protection	IP65					
Cycle Life	6000 (@ 25℃)					
Operating Temperature Range	-20~55					
Dimensions [W×H×D mm]	680×400×197					

* PV Max. input voltage is 500V, otherwise inverter will be waiting;
** Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;

IntegOne Business
PTH 25-50kW/64-112kWh

PTH-25/29.9/30/40/50K-S64/80/96/112.5kWh

Battery Model	E2BR-S64K-C	E2BR-S80K-C	E2BR-S96K-C	E2BR-S112-C
Cell Type	LiFePO4 / 314Ah			
Battery Module Quantity	4 Packs	5 Packs	6 Packs	7 Packs
Battery System Energy	64.3	80.3	96.4	112.5
Depth of Discharge	90%			
Rated Voltage	204.8	256	307.2	358.4
Operatign Voltage Range	166.4-233.6	208-292	249.6-350.4	291.2-408.8
Max. Charge/Discharge Current	150			
Cycle Life	8000 (@25℃)			
Inverter Model	**M2HT-25-150**	**M2HT-29.9-150**	**M2HT-30-150**	**M2HT-40-150**	**M2HT-50-150**
PV Input					
Recommended Max.input Power	40	48	48	64	80
Start-up Voltage	210	210	210	210	210
Max. DC Input Voltage	1000	1000	1000	1000	1000
Rated DC Input Voltage*	620	620	620	620	620
MPPT Voltage Range	200-950	200-950	200-950	200-950	200-950
No. of MPP Trackers*	4	4	4	4	4
No. of DC inputs per MPPT	2	2	2	2	2
Max. Input Current	40×4	40×4	40×4	40×4	40×4
Max. Short-circuit Current	50×4	50×4	50×4	50×4	50×4
Grid Side					
Rated Output Power	25	29.9	30	40	50
Max. Output Apparent Power	25	29.9	30	40	50
Max. Input Apparent Power	50	60	60	80	80
Max. Charging Power of Battery	25	29.9	30	40	50
Rated AC Voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Frequency	50/60				
Max. Output Current	37.9	45.3	45.5	60.6	75.8
Power Factor	0.8 leading …0.8 lagging				
Max. Total Harmonic Distortion	<3% @Rated Output Power				
DCI	<0.5%In				
Back-up Side					
Rated Output Power	25	29.9	30	40	50
Max. Output Apparent Power	25	29.9	30	40	50
Max. Output Current	37.9	45.3	45.5	60.6	75.8
On/Off-grid Switching Time	<10ms				
Rated Output Voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated Output Frequency	50/60				
Voltage Harmonic Distortion	<3% @Rated Output Power				
Generator Side					
Max. Input Apparent Power	30	36	36	48	60
Max. Charging Power of Battery	25	30	30	40	50
Rated AC Voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Frequency	50/60				
Max. Input Current	75.8	90.9	90.9	121.2	121.2
Efficiency					
Max. Efficiency	97.80%				
European Efficiency	97.20%				
Battery Charge/Discharge Efficiency	97.50%				
General Data					
Dimensions [W×H×D mm]	1377×2355×1140				
Weight	1178	1291	1291	1404	1517
Ingress Protection	Cabinet: IP55; Inverter: IP66				
Anti-corrosion Degree	C4 (C5 Optional)				
Topology	Non-isolated				
Operating Temperature Range	-30~50				
Relative Humidity	5%~95% RH (non-condensing)				
Fire Protection	Aerosol(Optional:Novec1230) / Water				
Altitude	≤3000				
Cooling Method	Cabinet: Air conditioner; Inverter: Smart fan				
Display	OLED & LED				
Communication	CAN, RS485, WIFI/LAN				

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