SOLINTEG

INTEG M SERIES

The Power Master

Hybrid Inverter

Single-phase 3-8kW
Three-phase 4-12kW
Three-phase 10-20kW
Three-phase 25-50kW

About Solinteg

Solinteg stands at the forefront of energy innovation, transforming how the world harnesses solar power. Our hybrid inverters and photovoltaic storage solutions are central to this mission, merging efficiency with sustainable technology. Designed to revolutionize energy management, these products epitomize our commitment to a smarter, cleaner energy future. Our global reach extends beyond markets, driving eco-friendly change in homes, businesses, and industries worldwide. Solinteg is more than a brand; it's a promise of a sustainable, intelligent energy era.

Powering Innovation: The Solinteg MORE Platform

The Solinteg MORE platform represents an advanced inverter development platform, embodying a unified concept of modularized hardware and firmware design. This methodology facilitates rapid product development and iteration, maintaining high consistency in performance. Inverters developed through this platform are characterized by four key features: Modular, Optional, Reliable, and Extensible. Through leveraging these principles, the Solinteg MORE platform stands at the forefront of innovative inverter technology, enhancing adaptability and efficiency across various applications.

Modular

Common building block (CBB) design for both hardware and structure

Optional

Modular design of firmware allows easy functional configurations

Reliable

Stable performance by shared knowledge and validation techniques

Extensible

Offers flexibility and feasibility for functional expansions

Solinteg Cloud

Integ M

The Power Master

Hybrid Inverter

MORE

Product Portfolio

Integ O

The Power Operator

On-grid Inverter

Integ R

The Power Reader

EMS Device

Integ E

The Power Extender

Battery

Solinteg Cloud

Experience the Integ M Hybrid Inverter

Comprehensive Power Coverage for Every Distributed Solar Storage Need

Integ M 3-8kW

Single-phase Hybrid Inverter

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

Location: Schwabmünchen, Germany
Completed: Jul, 2023
PV System: 8.7kW
Storage Capacity: 10kWh

Integ M 4-12kW

Three-phase Hybrid Inverter

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

Location: Ukraine
Completed: Feb, 2023
PV System: 10kW
Storage Capacity: 10kWh

Integ M 10-20kW

Three-phase Hybrid Inverter

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

Location: Brno, Czech
Completed: Apr, 2023
PV System: 120kW
Storage Capacity: 60kWh

Integ M 25-50kW

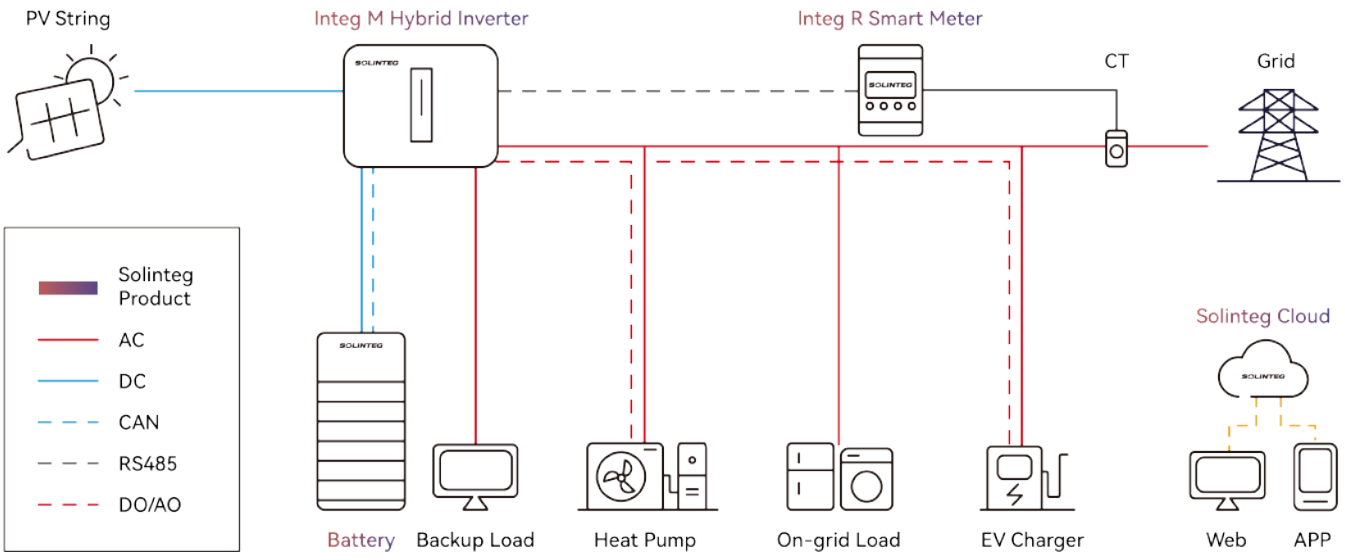
Three-phase Hybrid Inverter

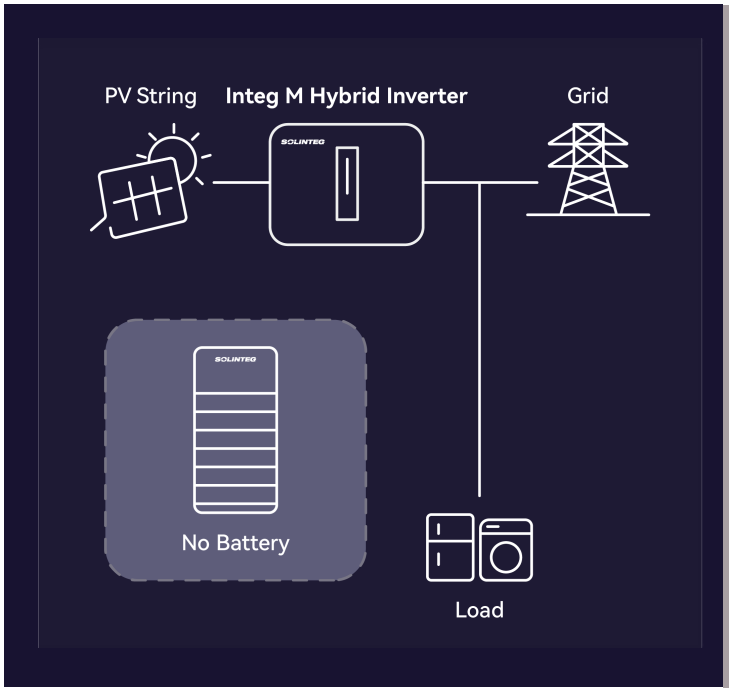
MHT-25K-100 MHT-30K-100
MHT-36K-100 MHT-40K-100
MHT-50K-100

Location: Worminghaus in Husum, Northern Germany
Completed: Nov, 2023
PV System: 66kW
Storage Capacity: 104kWh

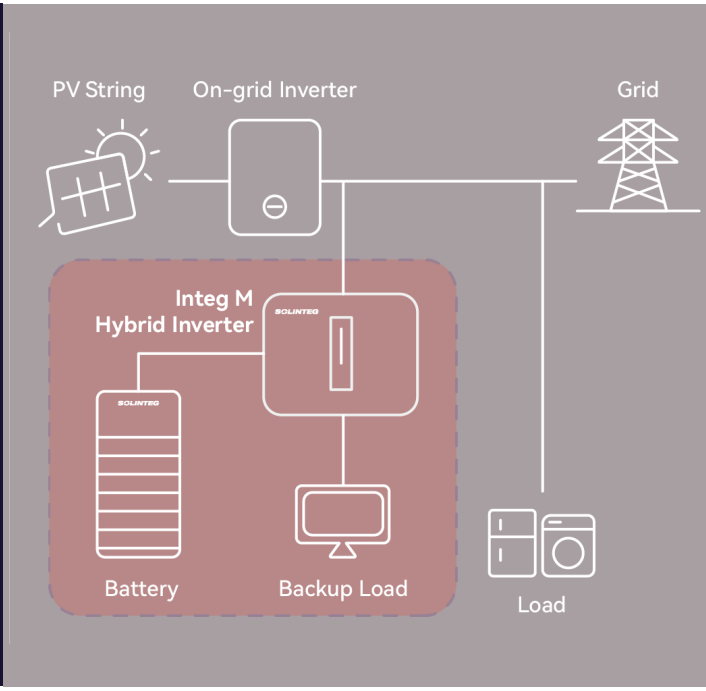
HomeOne

Residential Energy Storage Solution





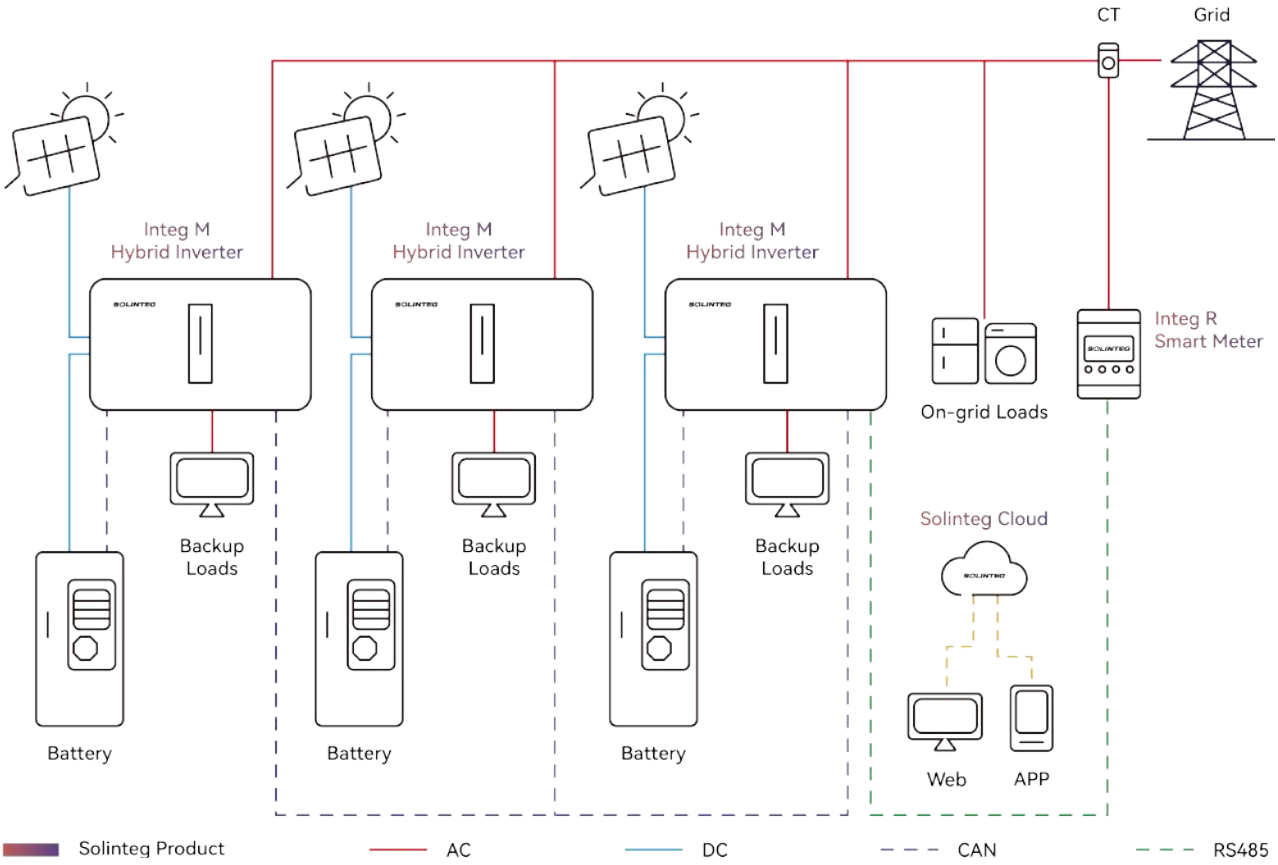
Battery Ready Scenario



AC Retrofit Scenario

Embrace the Future with Solinteg ParkOne Solution

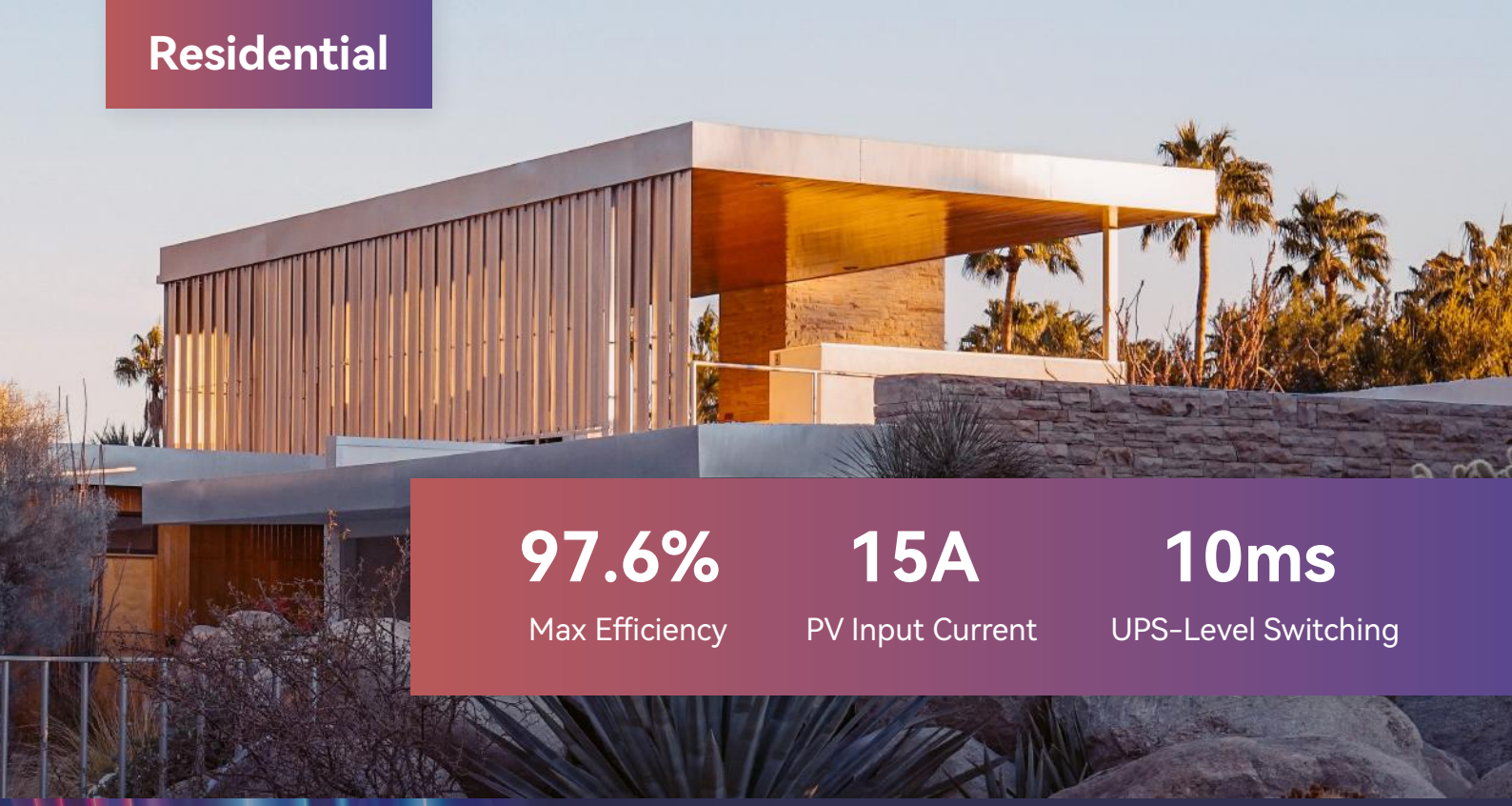
Decentralized Power, Centralized Intelligence for Commercial and Industrial Solar Storage



ParkOne

Commercial & Industrial Energy Storage Solution

Residential



97.6%
Max Efficiency

15A
PV Input Current

10ms
UPS-Level Switching

3-8kW Hybrid Inverter

MHS-3/3.6/4.2/5/6/8K-30
Single Phase | HV Battery

Maximized Energy Harvesting

- 160% DC oversizing boosts solar capture
- Starts at 80V for more generation time
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Engineered for Versatility

- Wide 85-450V range fits diverse batteries
- IP65 protects both indoors and outdoors
- Silent 25dB operation for comfort

Simplified Interaction

- Remote upgrades maintain system health
- Solinteg I-light for quick status checks
- OLED and App for easy control

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency

Integ M Series

The Power Master

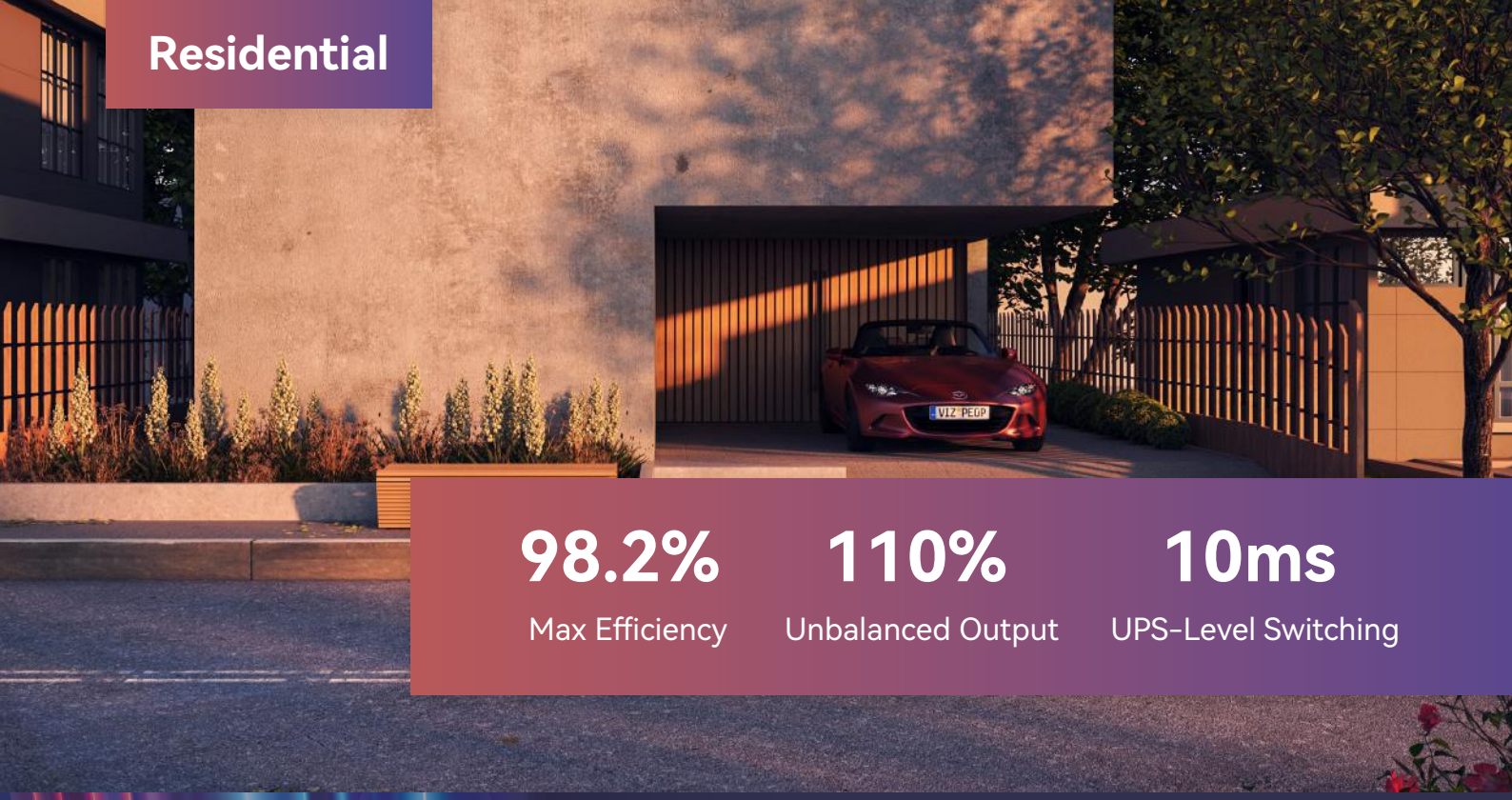
Integ M 3-8kW

Model		MHS-3K-30	MHS-3.6K-30	MHS-4.2K-30	MHS-5K-30	MHS-6K-30	MHS-8K-30
PV Input							
Recommended Max. input power	[kW]	4.80	5.76	6.72	8.00	9.60	12.80
Start-up voltage	[V]	80	80	80	80	80	80
Max. DC input voltage*	[V]	600*	600*	600*	600*	600*	600*
Rated DC input voltage	[V]	360	360	360	360	360	360
MPPT voltage range*	[V]	100-550*	100-550*	100-550*	100-550*	100-550*	100-550*
No. of MPP trackers		1	1	2	2	2	2
No. of DC inputs per MPPT		1	1	1/1	1/1	1/1	1/1
Max. input current	[A]	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
Battery Side							
Battery type		Lithium Battery (with BMS)					
Battery voltage range	[V]	85-450					
Maximum charging/discharge current	[A]	30/30					
Grid Side							
Rated output power	[kW]	3.00	3.60	4.20	5.00[3]	6.00	8.00
Max. output apparent power	[kVA]	3.30	3.96[1]	4.60	5.50[4]	6.60	8.00
Max. input apparent power**	[kVA]	6.00	7.20	8.40	10.00	10.00	12.00
Max. charging power of battery	[kW]	3.00	3.60	4.20	5.00	6.00	8.00
Rated AC voltage		L/N/PE; 220/230/240V					
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Max. output current	[A]	15.00	18.00[2]	21.00	25.00[5]	28.70	36.30
Power factor		0.8 leading ...0.8 lagging					
Max. total harmonic distortion		<3% @Rated output power					
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side							
Rated output power	[kW]	3.00	3.60	4.20	5.00	6.00	8.00
Max. output apparent power	[kVA]	3.30	3.96	4.60	5.50	6.60	8.00
Max. output current	[A]	15.00	18.00	21.00	25.00	28.70	36.30
UPS switching time		<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Rated output voltage		L/N/PE; 220/230/240V					
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3% @Linear load					
Efficiency							
Max. efficiency		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%
Protection							
DC reverse polarity protection		Integrated					
Battery input reverse connection protection		Integrated					
Insulation resistance protection		Integrated					
Surge protection		Integrated					
Over-temperature protection		Integrated					
Residual current protection		Integrated					
Islanding protection		Integrated					
AC over-voltage protection		Integrated					
Overload protection		Integrated					
AC short-circuit protection		Integrated					
General Data							
Over voltage category		PV: II Main: III					
Dimensions	[W×H×D mm]	534×418×210					
Weight	[KG]	27.0					
Protection degree		IP65					
Standby self-consumption	[W]	<15					
Topology		Transformerless					
Operating Temperature Range	[°C]	-30~60					
Relative Humidity	[%]	0~100					
Operating Altitude	[m]	3000 (>3000m derating)					
Cooling		Natural Convection					
Noise Level	[dB]	<25					
Display		OLED & LED					
Communication		CAN, RS485, WiFi/LAN (Optional)					

* 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 utility grid used to satisfy the backup loads and charge the battery;

1) G98: 3.68kVA; 2) G98: 16.00A; 3) AS 4777.2: 5.0kW, VDE-AR-N 4105: 4.6kW; 4) AS 4777.2: 5.0kVA, VDE-AR-N 4105: 4.60kVA, C10/11: 5.0kVA;
5) AS 4777.2: 21.7A, VDE-AR-N 4105: 21.0A, C10/11: 21.7A;

Residential



98.2% Max Efficiency

110% Unbalanced Output

10ms UPS-Level Switching

4-12kW Hybrid Inverter

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

Three Phase | HV Battery | 2 MPPTs

Maximized Energy Harvesting

- 150% DC oversizing boosts solar capture
- 110% unbalanced output enhances self-consumption
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Engineered for Versatility

- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Silent 25dB operation for comfort

Simplified Interaction

- Remote upgrades maintain system health
- Solinteg I-light for quick status checks
- OLED and App for easy control

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency

Integ M Series

The Power Master

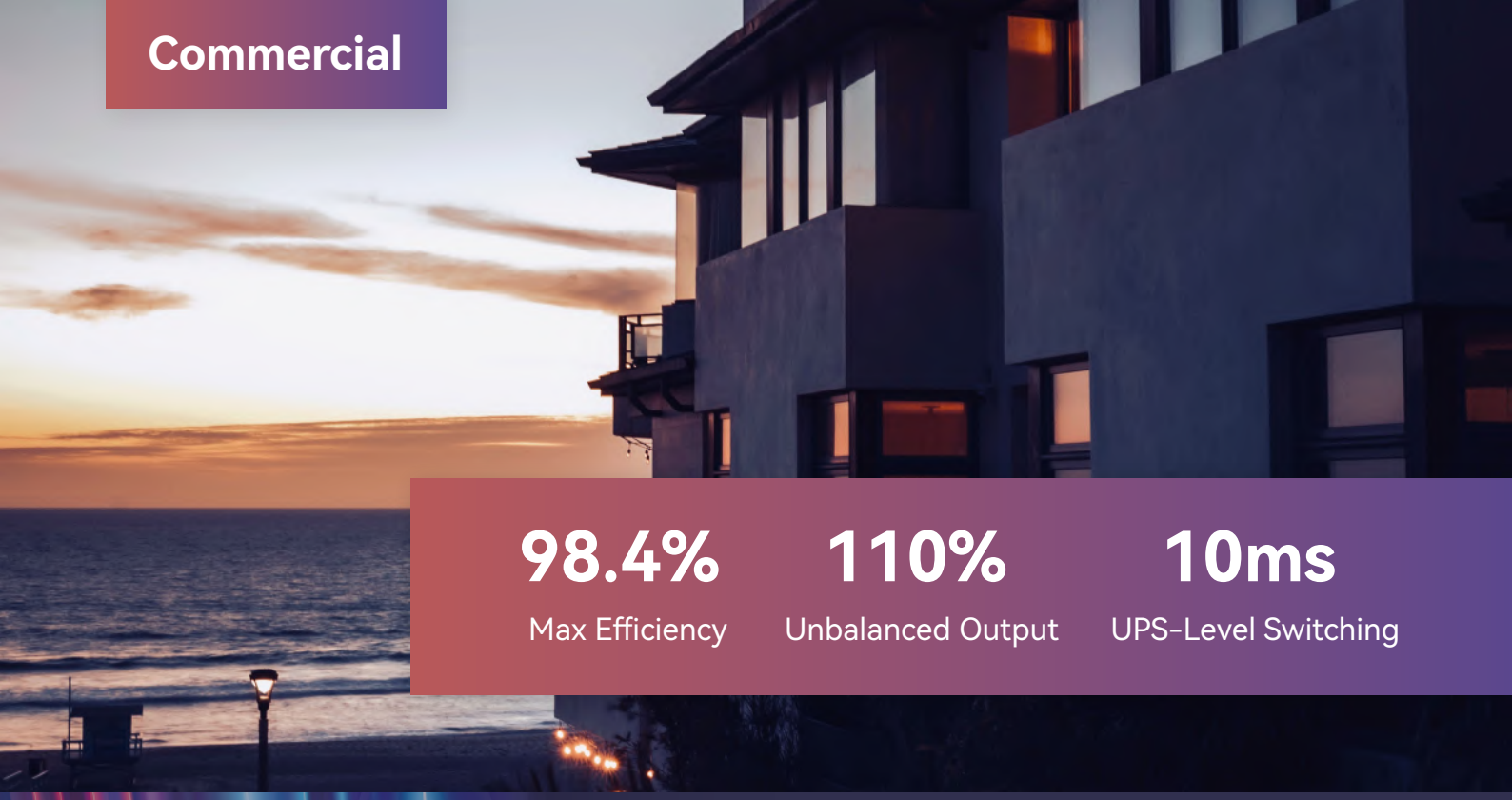
Integ M 4-12kW

Model		MHT-4K-25	MHT-5K-25	MHT-6K-25	MHT-8K-25	MHT-10K-25	MHT-12K-25
PV Input							
Recommended Max. input power	[kW]	6.0	7.5	9.0	12.0	15.0	18.0
Start-up voltage	[V]	135	135	135	135	135	135
Max. DC input voltage*	[V]	1000*	1000*	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620	620	620
MPPT 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 DC inputs per MPPT		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
Max. short-circuit current	[A]	20/20	20/20	20/20	20/20	20/20	20/20
Battery Side							
Battery type		Lithium Battery (with BMS)					
Battery voltage range	[V]	135-750					
Maximum charging/discharge current	[A]	25/25					
Grid Side							
Rated output power	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Max. output apparent power	[kVA]	4.4	5.5	6.6	8.8	11.0[1)]	13.2
Max. input apparent power**	[kVA]	8.0	10.0	12.0	16.0	16.5	16.5
Max. charging power of battery	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V					
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60
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					
Max. total harmonic distortion		<3% @Rated output power					
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side							
Rated output power	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Max. output apparent power	[kVA]	4.4	5.5	6.6	8.8	11.0	13.2
Max. output current	[A]	6.7	8.3	10.0	13.3	16.5	20.0
UPS switching time		<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE; 220/380V;230/400V;240/415V					
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3% @Linear load					
Efficiency							
Max. efficiency		98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
European efficiency		97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Protection							
DC reverse polarity protection		Integrated					
Battery input reverse connection protection		Integrated					
Insulation resistance protection		Integrated					
Surge protection		Integrated					
Over-temperature protection		Integrated					
Residual current protection		Integrated					
Islanding protection		Integrated					
AC over-voltage protection		Integrated					
Overload protection		Integrated					
AC short-circuit protection		Integrated					
General Data							
Over voltage category		PV: II Main: III					
Dimensions	[W×H×D mm]	534×418×210					
Weight	[KG]	26.0					
Protection degree		IP65					
Standby self-consumption	[W]	<15					
Topology		Transformerless					
Operating Temperature Range	[℃]	-30~60					
Relative Humidity	[%]	0~100					
Operating Altitude	[m]	3000 (>3000m derating)					
Cooling		Natural Convection					
Noise Level	[dB]	<25					
Display		OLED & LED					
Communication		CAN, RS485, WiFi/LAN (Optional)					

* 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 battery;

1) G98: 10.5kVA; 2) G98: 16.00A

Commercial



98.4% Max Efficiency

110% Unbalanced Output

10ms UPS-Level Switching

10-20kW Hybrid Inverter

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

Three Phase | HV Battery | 2 MPPTs

Maximized Energy Harvesting

- 110% unbalanced output enhances self-consumption
- 40A charging/discharging for efficient energy transfer
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Engineered for Versatility

- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors

Simplified Interaction

- Remote upgrades maintain system health
- Solinteg I-light for quick status checks
- OLED and App for easy control

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency

Integ M Series

The Power Master

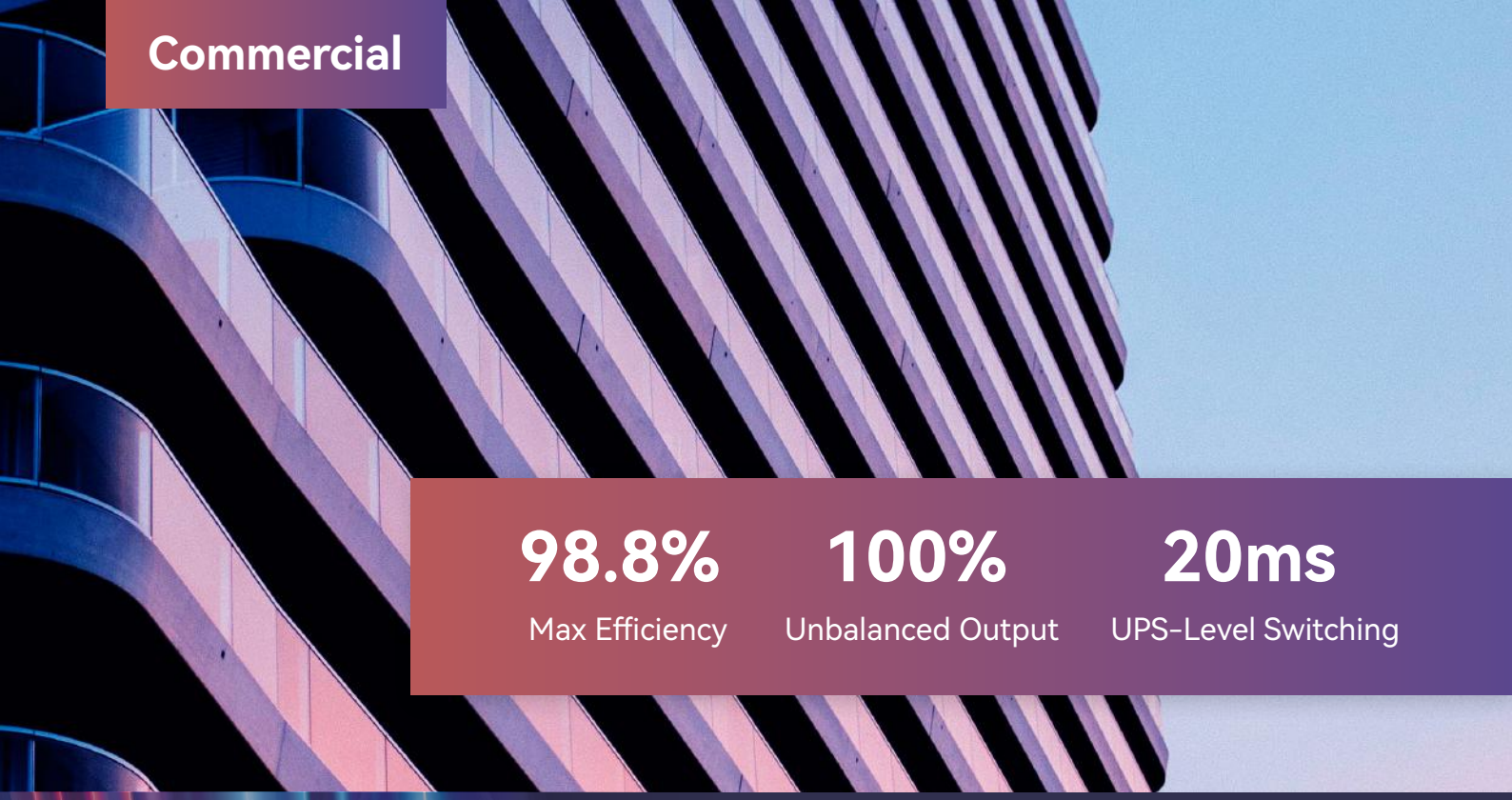
Integ M 10-20kW

Model		MHT-10K-40	MHT-12K-40	MHT-15K-40	MHT-20K-40
PV Input					
Recommended Max. input power	[kW]	15.0	18.0	22.5	30.0
Start-up voltage	[V]	135	135	135	135
Max. DC input voltage*	[V]	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620
MPPT voltage range*	[V]	200-950*	200-950*	200-950*	200-950*
No. of MPP trackers		2	2	2	2
No. of DC inputs per MPPT		2/2	2/2	2/2	2/2
Max. input current	[A]	30/30	30/30	30/30	30/30
Max. short-circuit current	[A]	40/40	40/40	40/40	40/40
Battery Side					
Battery type		Lithium Battery (with BMS)			
Battery voltage range	[V]	135-750			
Maximum charging/discharge current	[A]	40/40			
Grid Side					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Max. output apparent power	[kVA]	11.0[1)]	13.2	16.5[3)]	22.0
Max. input apparent power**	[kVA]	20.0	24.0	30.0	30.0
Max. charging power of battery	[kW]	10.0	12.0	15.0	20.0
Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V			
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60
Max. output current	[A]	16.5[2)]	20.0	25.0[4)]	33.5
Power factor		0.8 leading …0.8 lagging			
Max. total harmonic distortion		<3% @Rated output power			
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Max. output apparent power	[kVA]	11.0	13.2	16.5	22.0
Max. output current	[A]	16.5	20.0	25.0	33.5
UPS switching time		<10ms	<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE; 220/380V;230/400V;240/415V			
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3% @Linear load			
Efficiency					
Max. efficiency		98.4%	98.4%	98.4%	98.4%
European efficiency		97.5%	97.5%	97.5%	97.5%
Protection					
DC reverse polarity protection		Integrated			
Battery input reverse connection protection		Integrated			
Insulation resistance protection		Integrated			
Surge protection		Integrated			
Over-temperature protection		Integrated			
Residual current protection		Integrated			
Islanding protection		Integrated			
AC over-voltage protection		Integrated			
Overload protection		Integrated			
AC short-circuit protection		Integrated			
General Data					
Over voltage category		PV: II Main: III			
Dimensions	[W×H×D mm]	534×418×210			
Weight	[KG]	28.0 (10-12kW) / 31.0 (15-20kW)			
Protection degree		IP65			
Standby self-consumption	[W]	<15			
Topology		Transformerless			
Operating Temperature Range	[℃]	-30~60			
Relative Humidity	[%]	0~100			
Operating Altitude	[m]	3000 (>3000m derating)			
Cooling		Smart fan			
Noise Level	[dB]	<40			
Display		OLED & LED			
Communication		CAN, RS485, WiFi/LAN (Optional)			

* 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 battery;

1) G98: 10.5kVA; 2) G98: 16.00A; 3) AS 4777.2: 15.0kVA; 4) AS 4777.2: 21.7A

Commercial



98.8% Max Efficiency

100% Unbalanced Output

20ms UPS-Level Switching

Integ M Series

The Power Master

25-50kW Hybrid Inverter

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

Three Phase | HV Battery | 4 MPPTs

Maximized Energy Harvesting

- 100% unbalanced output enhances self-consumption
- 100A charging/discharging for efficient energy transfer
- Continuous 110% AC overloading sustains power
- Starts at 135V for more generation time

Engineered for Versatility

- 120% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Parallel up to 10 devices for scalable system expansion

Simplified Interaction

- Remote upgrades maintain system health
- Solinteg I-light for quick status checks
- OLED and App for easy control

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing

Integ M 25-50kW

Model		MHT-25K-100	MHT-30K-100	MHT-36K-100	MHT-40K-100	MHT-50K-100
PV Input						
Recommended Max. input power	[kW]	37.5	45.0	54.0	60.0	75.0
Start-up voltage	[V]	135	135	135	135	135
Max. DC input voltage*	[V]	1000*	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620	620
MPPT voltage range*	[V]	200-850*	200-850*	200-850*	200-850*	200-850*
No. of MPP trackers		4	4	4	4	4
No. of DC inputs per MPPT		2	2	2	2	2
Max. input current	[A]	30×4	30×4	30×4	30×4	30×4
Max. short-circuit current	[A]	40×4	40×4	40×4	40×4	40×4
Battery Side						
Battery type		Lithium Battery (with BMS)				
Battery voltage range	[V]	135-750				
Maximum charging/discharge current	[A]	100/100				
Grid Side						
Rated output power	[kW]	25.0	30.0	36.0	40.0	50.0
Max. output apparent power	[kVA]	27.5	33.0[1)]	39.6	44.0	55.0
Max. input apparent power**	[kVA]	30.0	36.0	43.5	48.0	60.0
Max. charging power of battery	[kW]	25.0	30.0	36.0	40.0	50.0
Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60	50/60
Max. output current	[A]	42.0	50.0[2)]	60.0	66.0	83.0
Power factor		0.8 leading …0.8 lagging				
Max. total harmonic distortion		<3% @Rated output power				
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side						
Rated output power	[kW]	25.0	30.0	36.0	40.0	50.0
Max. output apparent power	[kVA]	27.5	33.0	39.6	44.0	55.0
Max. output current	[A]	42.0	50.0	60.0	66.0	83.0
UPS switching time		<20ms	<20ms	<20ms	<20ms	<20ms
Rated output voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3% @Linear load				
Generator Side						
Max. intput apparent power**	[kVA]	30.0	36.0	43.5	48.0	60.0
Max. charging power of battery	[kW]	25.0	30.0	36.0	40.0	50.0
Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60	50/60
Max. input current	[A]	43.5	52.2	63.0	69.6	87.0
Efficiency						
Max. efficiency		98.8%	98.8%	98.8%	98.8%	98.8%
European efficiency		98.3%	98.3%	98.3%	98.3%	98.3%
Protection						
DC reverse polarity protection		Integrated				
Battery input reverse connection protection		Integrated				
Insulation resistance protection		Integrated				
Surge protection		Integrated				
Over-temperature protection		Integrated				
Residual current protection		Integrated				
Islanding protection		Integrated				
AC over-voltage protection		Integrated				
Overload protection		Integrated				
AC short-circuit protection		Integrated				
General Data						
Over voltage category		PV: II Main: III				
Dimensions	[W×H×D mm]	800×620×300				
Weight	[KG]	72.0				
Protection degree		IP65				
Standby self-consumption	[W]	<15				
Topology		Transformerless				
Operating Temperature Range	[℃]	-30~60				
Relative Humidity	[%]	0~100				
Operating Altitude	[m]	3000 (>3000m derating)				
Cooling		Smart fan				
Noise Level	[dB]	<50				
Display		OLED & LED				
Communication		CAN, RS485, WiFi/LAN (Optional)				

* PV Max. Input voltage is 850V, 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 battery;

1) AS 4777.2, VDE-AR-N 4105: 30.0kVA; 2) AS 4777.2, VDE-AR-N 4105: 43.5A

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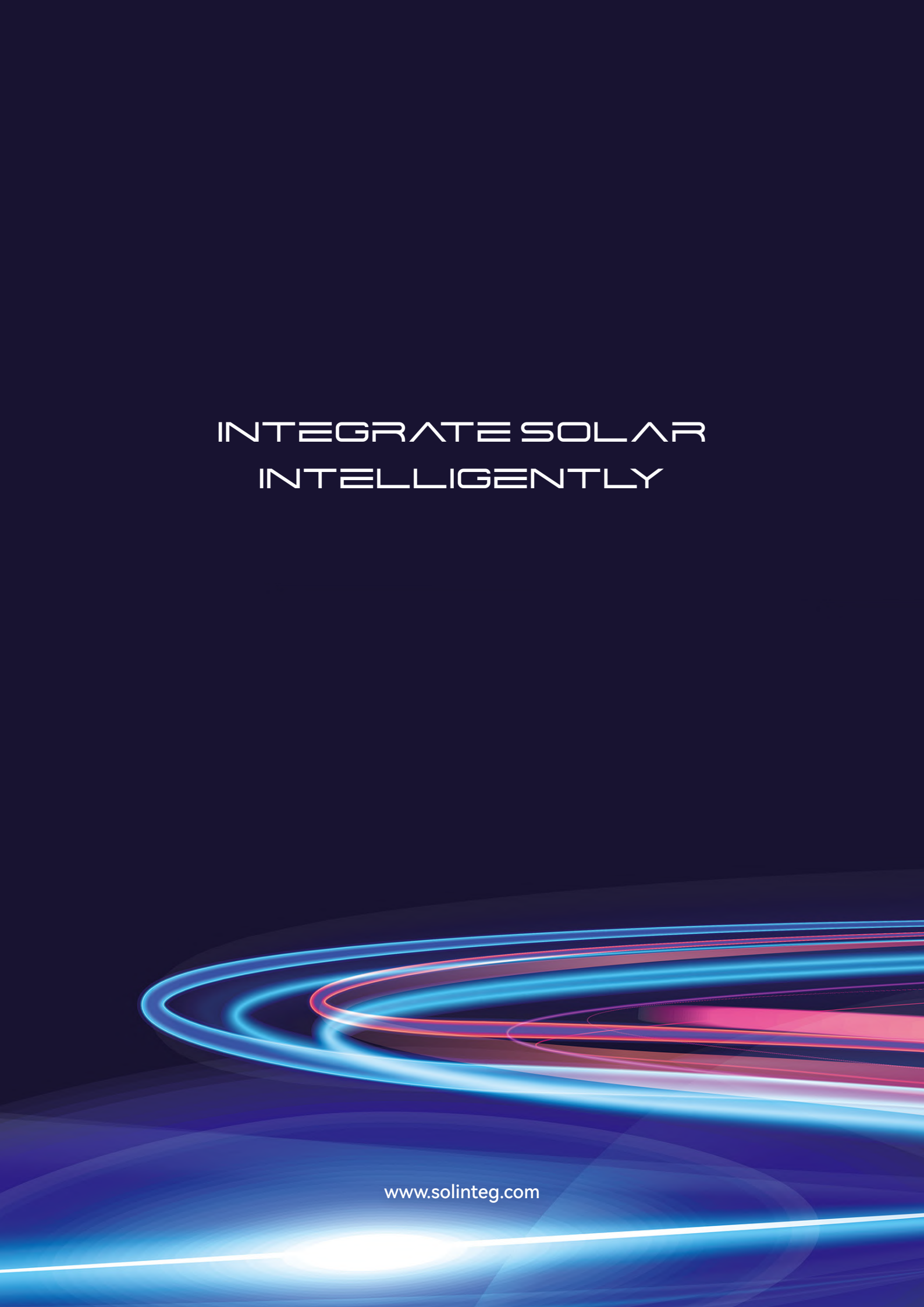

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