

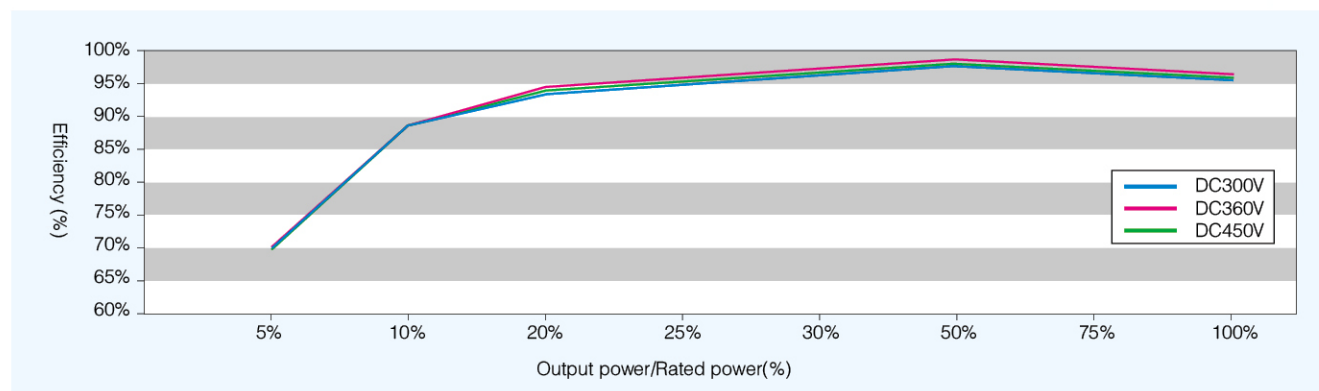
LS 3000H LS 4000H / LS 5000H

Leading - edge technology

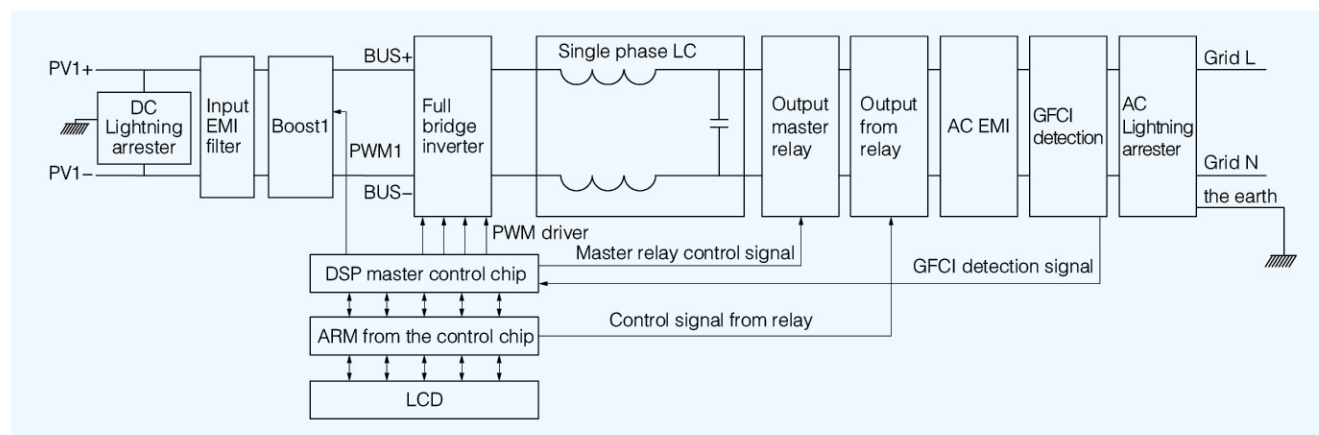
- Max.Efficiency 97.2%
- Internal DC Switch for added safety protection
- Transformerless design and easy installation
- Compact design
- Power factor continuously adjustable
- Flexible communication connection, support USB, WIFI, Ethernet
- Support online update from USB or ethernet
- 5 years standard warranty



Efficiency curve



Circuit diagram



Technical specifications

DATASHEET	LS 3000H	LS 4000H	LS 5000H
INPUT DATA (DC)			
Max.DC power	3600W	4800W	6000W
Max.PV power of per MPPT	3600W	4800W	6000W
Max.DC voltage	550V	600V	600V
Start voltage	100V	100V	100V
DC voltage range	100–550V	100–600V	100–600V
MPPT work voltage range / nominal voltage	100–500V / 360V	100–550V / 360V	100–550V / 360V
Full load DC voltage range	250–500V	200–500V	250–500V
Max.input current	13.0A	23.0A	23.0A
Max.input current per string	13.0A	23.0A	23.0A
MPPT tracking number	1 / 1	1 / 2	1 / 2
OUTPUT (AC)			
Rated AC output power	3000W	4000W	5000W
Max.AC output power	3300W	4400W	5500W
Max.output apparent power	3300VA	4400VA	5500VA
Max.output current	15.0A	20.0A	25.0A
Rated grid voltage; Grid voltage range per phase	220V / 230V / 240V 180–280VAC	220V / 230V / 240V 180–280VAC	220V / 230V / 240V 180–280VAC
Rated power grid frequency; Grid frequency range	50Hz / 60Hz; ± 5 Hz	50Hz / 60Hz; ± 5 Hz	50Hz / 60Hz; ± 5 Hz
Power factor ($\cos\Phi$)	0.8 i...1...0.8 c	0.8 i...1...0.8 c	0.8 i...1...0.8 c
Current harmonics (THDI)	< 3% (At nominal output power)	< 3% (At nominal output power)	< 3% (At nominal output power)
AC grid connection type	Single Phase	Single Phase	Single Phase
EFFICIENCY			
Max.Efficiency	97.5%	97.5%	97.6%
Euro- Efficiency	97%	97%	97.1%
MPPT Efficiency	99.9%	99.9%	99.9%
PROTECTION DEVICES			
DC reverse polarity protection	Integrated	Integrated	Integrated
DC switch for each MPPT	Integrated (opt)	Integrated (opt)	Integrated (opt)
Output over current protection	Integrated	Integrated	Integrated
Output over voltage protection	Integrated	Integrated	Integrated
Ground fault monitoring	Integrated	Integrated	Integrated
Grid monitoring	Integrated	Integrated	Integrated
Leakage current protection	Integrated	Integrated	Integrated
Island protection	Integrated	Integrated	Integrated
GENERAL DATA			
Dimensions (W × H × D) (mm)	340 × 290 × 160mm	355 × 395 × 170mm	355 × 395 × 170mm
Weight	8.7KG	13.5KG	13.5KG
Install way	Wall hanging fixed	Wall hanging fixed	Wall hanging fixed
Operating temperature range	–25°C ~+60°C	–25°C ~+60°C	–25°C ~+60°C
Noise emission	25db(A)	25db(A)	25db(A)
Altitude	3000m	3000m	3000m
Self-consumption at night	≤ 0.5W	≤ 0.5W	≤ 0.5W
Topology	H6 / Transformerless	H6 / Transformerless	H6 / Transformerless
Cooling concept	Natural	Natural	Natural
Overall protection level	IP65	IP65	IP65
Relative humidity (No condensation)	0~98%	0~98%	0~98%
FEATURES			
DC connection	H4 / MC4	H4 / MC4	H4 / MC4
AC connection	C16 / 3	C16 / 3	C16 / 3
Display	LCD / LED	LCD / LED	LCD / LED
Communication: USB / WIFI / RS485 / GPRS	yes / opt / yes / opt	yes / opt / yes / opt	yes / opt / yes / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt
CERTIFICATES AND APPROVALS			

CE, VDE 0126–1–1, IEC 62109, G83–2, G59–3, AS4777, AS / NZS 3100, VDE–AR–N4105, EN50438, EN62116, CQC, MEA, PEA, IEC61683

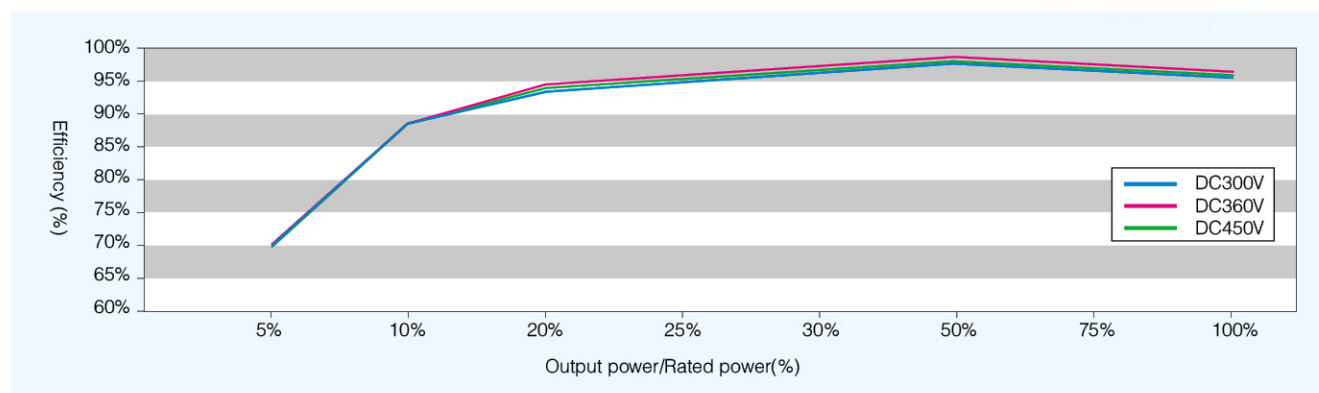
LS 3000HD LS 4000HD / LS 5000HD

Leading - edge technology

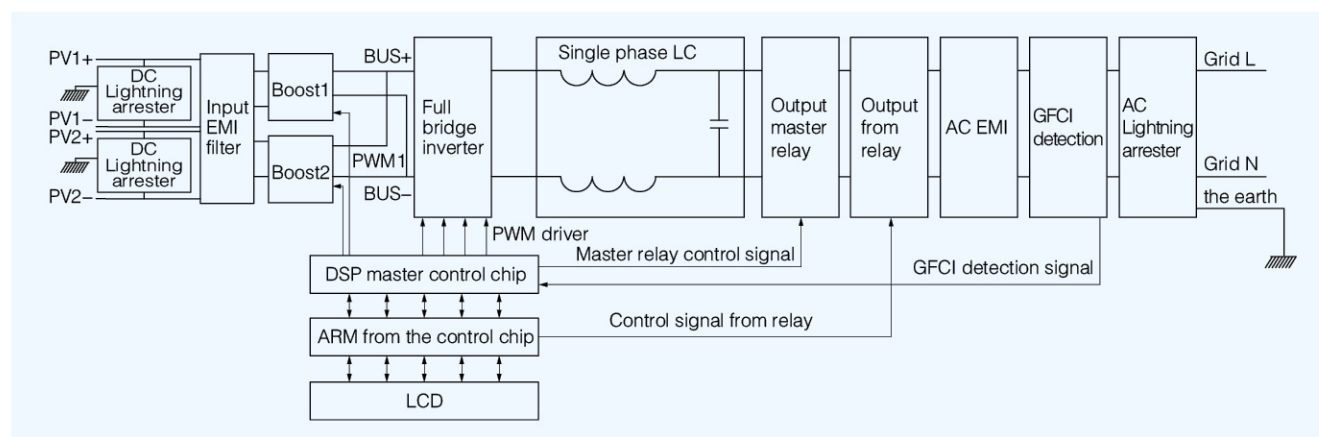
- Double MPPT Tracker, MPPT Tracking accuracy more than 99.8%
- Max.Efficiency 97.8%, European efficiency 97.2%
- Internal DC Switch for added safety protection
- Power factor continuously adjustable
- Flexible communication connection, support USB, WiFi, Ethernet
- Support online update from USB or ethernet
- 5 years standard warranty
- Comply with European, Asia-Pacific safety regulations
- Transformerless design and high power density, offer lighter and more convenient installation



Efficiency curve



Circuit diagram



Technical specifications

DATASHEET	LS 3000HD	LS 4000HD	LS 5000HD
INPUT DATA (DC)			
Max.DC power	3600W	4800W	6000W
Max.PV power of per MPPT	3000W	4000W	5000W
Max.DC voltage	600V	600V	600V
Start voltage	100V	100V	100V
DC voltage range	100–600V	100–600V	100–600V
MPPT work voltage range / nominal voltage	100–550V / 360V	100–550V / 360V	100–550V / 360V
Full load DC voltage range	150–500V	200–500V	250–500V
Max.input current	24.0A	24.0A	26.0A
Max.input current per string of trackerA / trackerB	12.0A / 12.0A	12.0A / 12.0A	13.0A / 13.0A
MPPT tracking number	2 / 1	2 / 1	2 / 1
OUTPUT (AC)			
Rated AC output power	3000W	4000W	5000W
Max.output apparent power	3300W	4400W	5500W
Max.AC apparent power	3300VA	4400VA	5500VA
Max.output current	15.0A	20.0A	25.0A
Rated grid voltage; Grid voltage range per phase	220V / 230V / 240V 180–280VAC	220V / 230V / 240V 180–280VAC	220V / 230V / 240V 180–280VAC
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MPPT Efficiency	99.9%	99.9%	99.9%
PROTECTION DEVICES			
DC reverse polarity protection	Integrated	Integrated	Integrated
DC switch for each MPPT	Integrated (opt)	Integrated (opt)	Integrated (opt)
Output over current protection	Integrated	Integrated	Integrated
Output over voltage protection	Integrated	Integrated	Integrated
Ground fault monitoring	Integrated	Integrated	Integrated
Grid monitoring	Integrated	Integrated	Integrated
Leakage current protection	Integrated	Integrated	Integrated
Island protection	Integrated	Integrated	Integrated
GENERAL DATA			
Dimensions (W × H × D) (mm)	355 × 395 × 170mm	355 × 395 × 170mm	355 × 395 × 170mm
Weight	12.9KG	13.5KG	13.5KG
Install way	Wall hanging fixed	Wall hanging fixed	Wall hanging fixed
Operating temperature range	–25°C ~+60°C	–25°C ~+60°C	–25°C ~+60°C
Noise emission	25db(A)	25db(A)	25db(A)
Altitude	3000 m	3000 m	3000 m
Self–consumption at night	≤ 0.5W	≤ 0.5W	≤ 0.5W
Topology	H6 / Transformerless	H6 / Transformerless	H6 / Transformerless
Cooling concept	Natural	Natural	Natural
Overall protection level	IP65	IP65	IP65
Relative humidity (No condensation)	0~98%	0~98%	0~98%
FEATURES			
DC connection	H4 / MC4	H4 / MC4	H4 / MC4
AC connection	C16 / 3	C16 / 3	C16 / 3
Display	LCD / LED	LCD / LED	LCD / LED
Communication: USB / WIFI / RS485 / GPRS	yes / opt / yes / opt	yes / opt / yes / opt	yes / opt / yes / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt
CERTIFICATES AND APPROVALS			
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