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Certificate of compliance

Applicant: Ginlong Technologies Co., Ltd.
No.57 Jintong Road, Binhai Industrial Park, Xiangshan, 315712 Ningbo, Zhejiang,
PEOPLE'S REPUBLIC OF CHINA

Product: Photovoltaic (PV) inverter

Model: S6-GR1P6K-S,
S6-GR1P4.6K-S,
S6-GR1P3.6K-S,
S6-GR1P3K-S,
S6-GR1P2.5K-S,
S6-GR1P2.5K-S-LV,
S6-GR1P3K-S-LV

Use in accordance with regulations:

The inverter(s) is/are tested according the IEC 61683:1999, EN 61683:2000, DIN EN 61683:2000 procedure for measuring efficiency.

Applied rules and standards:

IEC 61683:1999, EN 61683:2000, DIN EN 61683:2000

Photovoltaic systems – Power conditioners – Procedure for measuring efficiency

At the time of issue of this certificate, the representative product listed above corresponds to the stated rules and standards.

Report number: CCCV-ESH-P23060159

Certification program: NSOP-0032-DEU-ZE-V01

Certificate number: U23-0496

Date of issue: 2023-06-19

Certification body


Alf Assenkamp



Certification body of Bureau Veritas Consumer Products Services Germany GmbH Accredited according to DIN EN ISO/IEC 17065

Testing laboratory accredited according to DIN EN ISO/IEC 17025

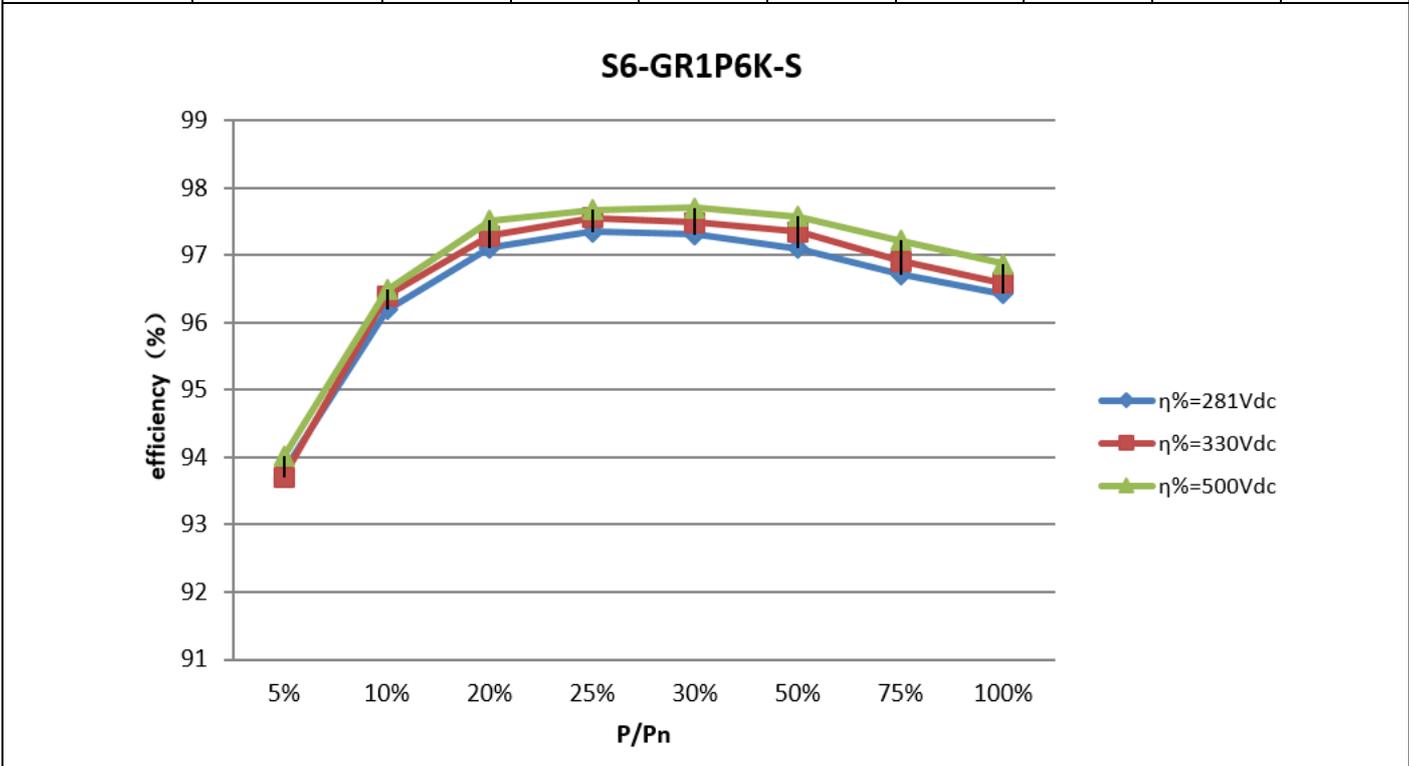
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Appendix
 Extract from test report according the IEC 61683 Nr. CCCV-ESH-P23060159

Efficiency measurement conditions test results

S6-GR1P6K-S		Temperature 25°C							
Input voltage [Vdc]		Power Level							
		5%	10%	20%	25%	30%	50%	75%	100%
		300	600	1200	1500	1800	3000	4500	6000
		η in [%]							
V _{min}	281	93,80	96,19	97,11	97,35	97,31	97,10	96,72	96,43
V _{nominal}	330	93,71	96,40	97,29	97,56	97,49	97,35	96,91	96,59
V _{max (90% MPPT)}	500	94,01	96,49	97,52	97,68	97,71	97,58	97,22	96,87



Note:
 Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)
 Internal power consumption via auxiliary input at maximum output power : 1,4W



Appendix

Extract from test report according the IEC 61683

Nr. CCCV-ESH-P23060159

Efficiency measurement conditions test results

S6-GR1P4.6K-S		Temperature 25°C							
Input voltage [Vdc]		Power Level							
		5%	10%	20%	25%	30%	50%	75%	100%
		230	460	920	1150	1380	2300	3450	4600
		η in [%]							
V_{min}	216	94,28	96,33	97,14	97,39	97,44	97,47	97,24	96,65
$V_{nominal}$	330	94,94	96,87	97,25	97,46	97,58	97,61	97,33	96,84
V_{max} (90% MPPT)	500	94,65	96,73	97,19	97,42	97,56	97,59	97,19	96,54



Note:

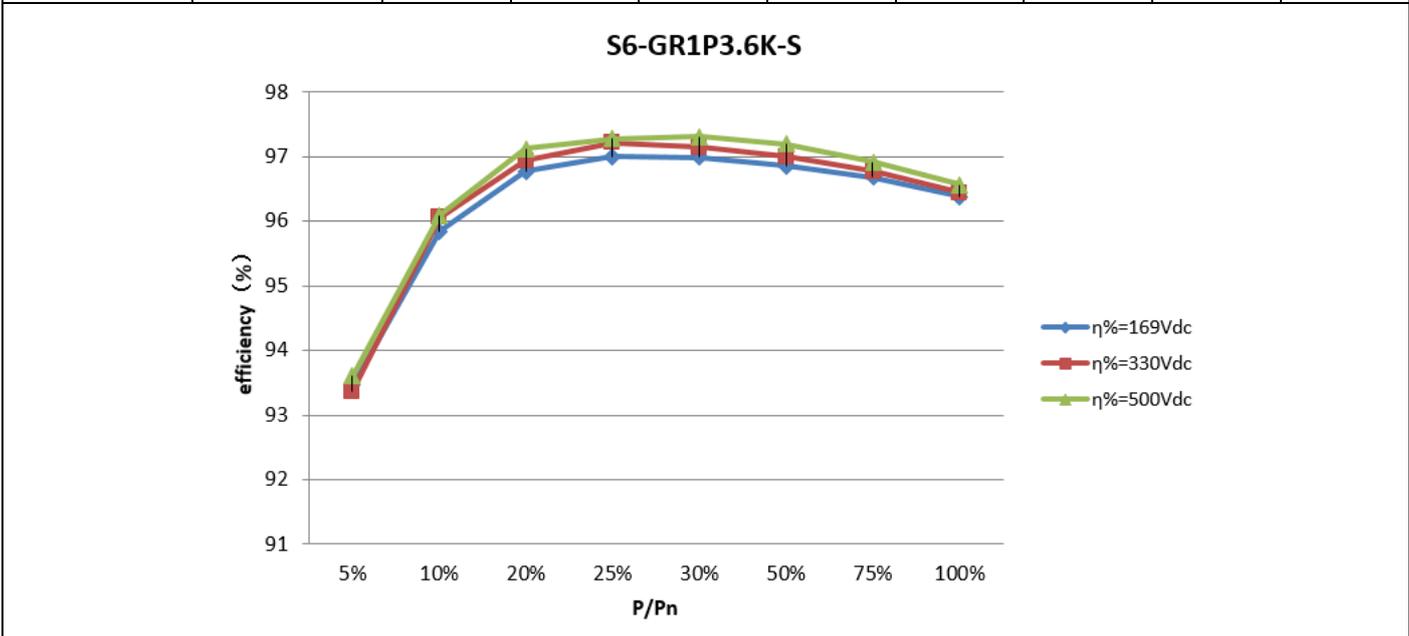
Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)

Internal power consumption via auxiliary input at maximum output power : 1,4W



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Efficiency measurement conditions test results									
S6-GR1P3.6K-S		Temperature 25°C							
Input voltage [Vdc]		Power Level							
		5%	10%	20%	25%	30%	50%	75%	100%
		180	360	720	900	1080	1800	2700	3600
		η in [%]							
V_{min}	169	93,46	95,84	96,77	97,00	96,99	96,86	96,68	96,38
$V_{nominal}$	330	93,37	96,06	96,94	97,22	97,15	97,00	96,77	96,44
V_{max} (90% MPPT)	500	93,61	96,09	97,12	97,28	97,31	97,20	96,92	96,57



Note:
 Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)
 Internal power consumption via auxiliary input at maximum output power : 1,4W



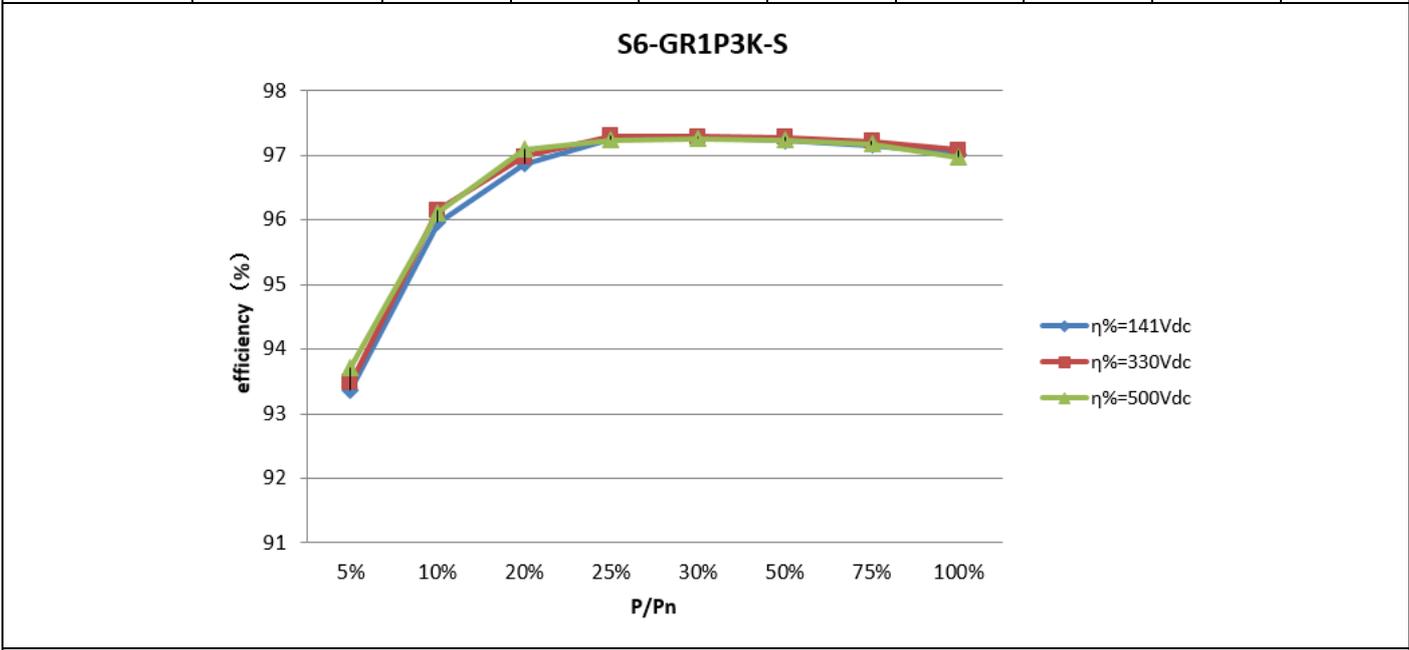
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 Extract from test report according the IEC 61683 Nr. CCCV-ESH-P23060159

Efficiency measurement conditions test results

S6-GR1P3K-S		Temperature 25°C							
		Power Level							
Input voltage [Vdc]		5%	10%	20%	25%	30%	50%	75%	100%
		150	300	600	750	900	1500	2250	3000
		η in [%]							
V_{min}	141	93,37	95,96	96,87	97,26	97,28	97,23	97,16	97,02
$V_{nominal}$	330	93,48	96,15	96,98	97,30	97,29	97,28	97,22	97,08
V_{max} (90% MPPT)	500	93,72	96,11	97,09	97,24	97,26	97,24	97,18	96,97



Note:
 Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)
 Internal power consumption via auxiliary input at maximum output power : 1,4W

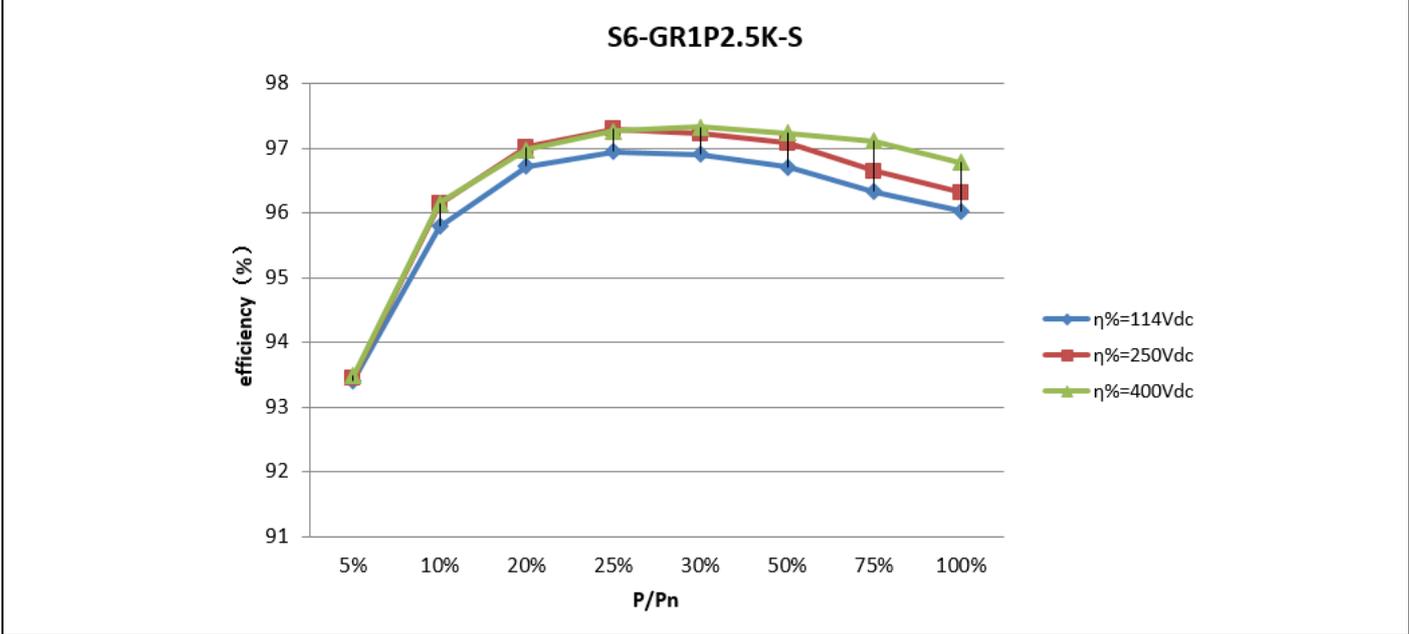


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Efficiency measurement conditions test results									
S6-GR1P2.5K-S		Temperature 25°C							
Input voltage [Vdc]		Power Level							
		5%	10%	20%	25%	30%	50%	75%	100%
		125	250	500	625	750	1250	1875	2500
		η in [%]							
V _{min}	114	93,41	95,79	96,72	96,95	96,91	96,71	96,33	96,03
V _{nominal}	250	93,45	96,14	97,02	97,30	97,23	97,08	96,65	96,32
V _{max (90% MPPT)}	400	93,48	96,15	96,98	97,27	97,33	97,24	97,11	96,78



Note:
 Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)
 Internal power consumption via auxiliary input at maximum output power : 1,4W



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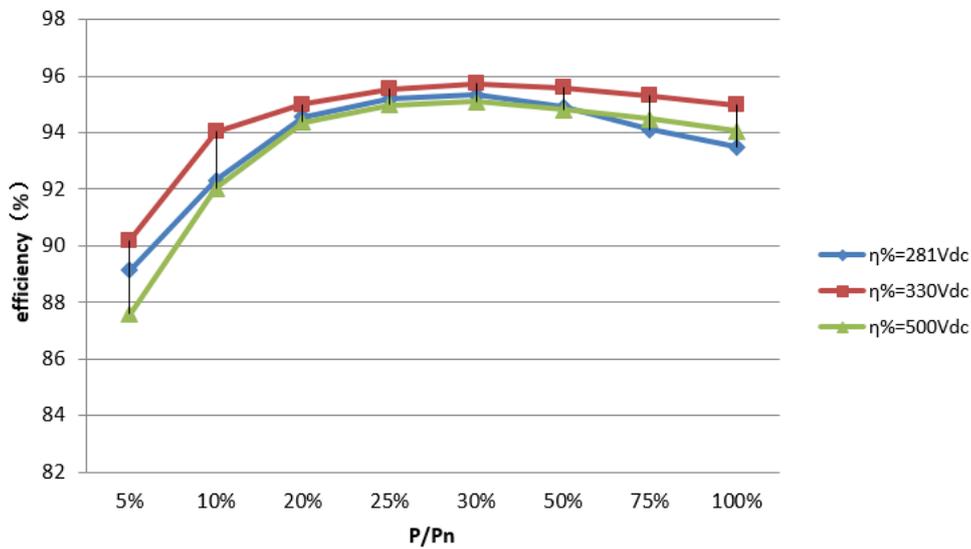
Extract from test report according the IEC 61683

Nr. CCCV-ESH-P23060159

Efficiency measurement conditions test results

S6-GR1P3K-S-LV		Temperature 25°C							
Input voltage [Vdc]		Power Level							
		5%	10%	20%	25%	30%	50%	75%	100%
		150	300	600	750	900	1500	2250	3000
		η in [%]							
V _{min}	281	89,14	92,32	94,56	95,19	95,33	94,91	94,12	93,49
V _{nominal}	330	90,20	94,03	95,01	95,55	95,74	95,59	95,31	94,99
V _{max} (90% MPPT)	500	87,58	92,04	94,37	94,98	95,10	94,81	94,48	94,06

S6-GR1P3K-S-LV



Note:

Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)

Internal power consumption via auxiliary input at maximum output power : 1,4W



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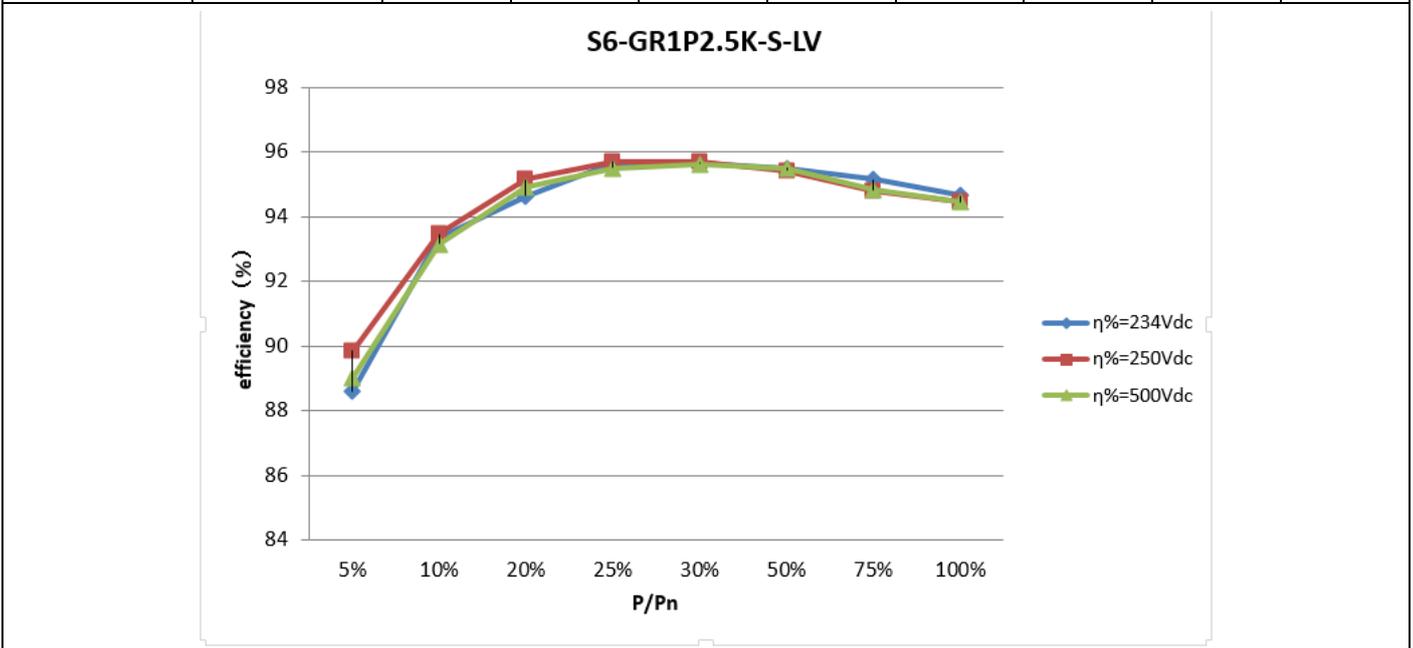
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Nr. CCCV-ESH-P23060159

Efficiency measurement conditions test results

S6-GR1P2.5K-S-LV		Temperature 25°C							
Input voltage [Vdc]		Power Level							
		5%	10%	20%	25%	30%	50%	75%	100%
		125	250	500	625	750	1250	1875	2500
		η in [%]							
V _{min}	234	88,59	93,35	94,63	95,66	95,66	95,51	95,15	94,65
V _{nominal}	250	89,86	93,46	95,15	95,71	95,70	95,43	94,80	94,45
V _{max} (90% MPPT)	500	89,01	93,15	94,93	95,51	95,63	95,49	94,82	94,48



Note:

Internal power consumption via auxiliary input in standby : 0,5W (Input: 0V, 0A; Output: 220V, 2,17mA)

Internal power consumption via auxiliary input at maximum output power : 1,4W