



**BUREAU
VERITAS**

Certificate of compliance

Applicant: SolarEdge Technologies Ltd.
1 HaMada Street
Herzliya 4673335
Israel

Product: Photovoltaic (PV) inverter

Model: SE40K
SE33.3K
SE30K
SE27.6K
SE25K
SE20.1K

Use in accordance with regulations:

The inverters are tested according to 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 safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: 19TH0534-IEC61683_0
Certificate number: U21-0111

Certification program: NSOP-0032-DEU-ZE-V01
Date of issue: 2021-02-10

Certification body



Thomas Lammel



*Certification body of Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065
A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH*

Measuring of efficiency

Extract from test report according the IEC 61683

Nr. 19TH0534-IEC61683_0

Efficiency measurement conditions test results

SE25K

Power in [W] (nom. 25000W)

Input voltage [Vdc]

10%

25%

50%

75%

100%

2500

6250

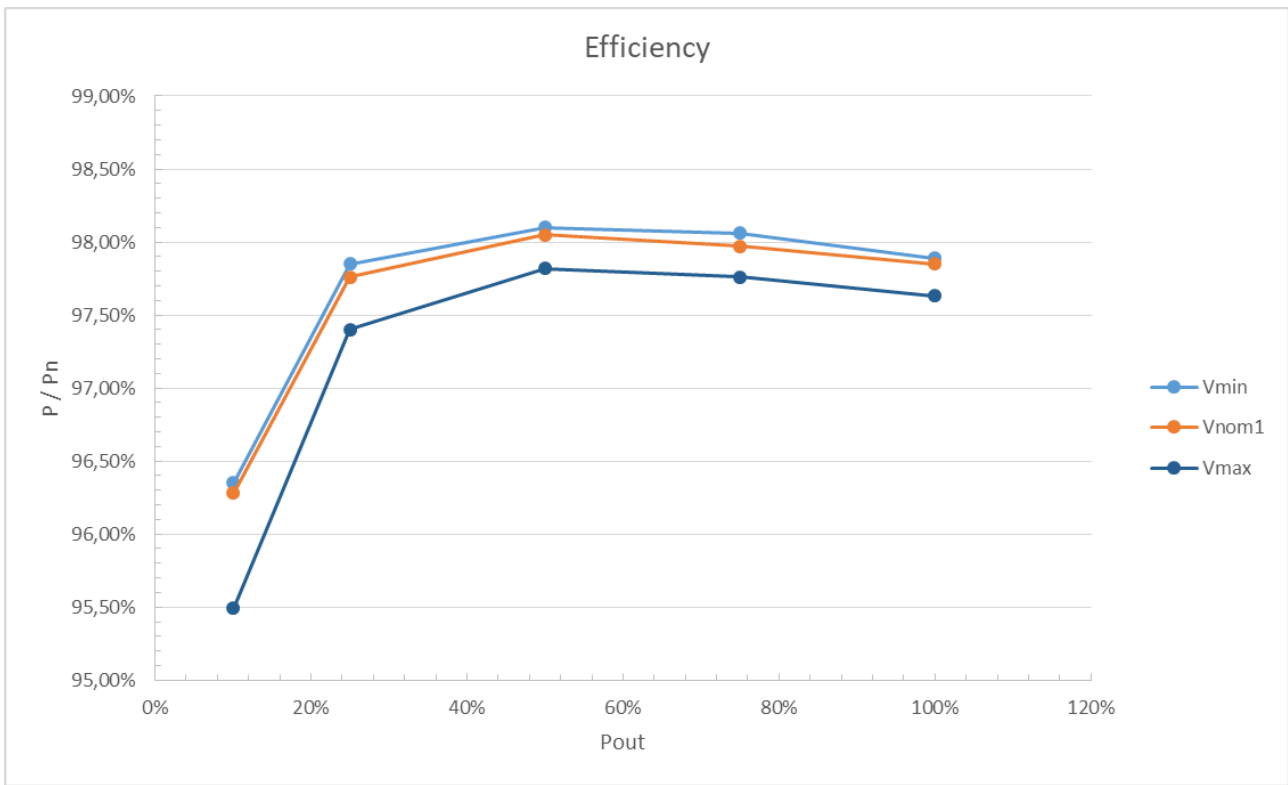
12500

18750

25000

η in [%]

V_{min}	700	96,35	97,85	98,10	98,06	97,89
V_{nominal}	750	96,28	97,76	98,05	97,97	97,85
V_{max} (90%)	900	95,49	97,40	97,82	97,76	97,63



Note:

Measuring of efficiency

Extract from test report according the IEC 61683

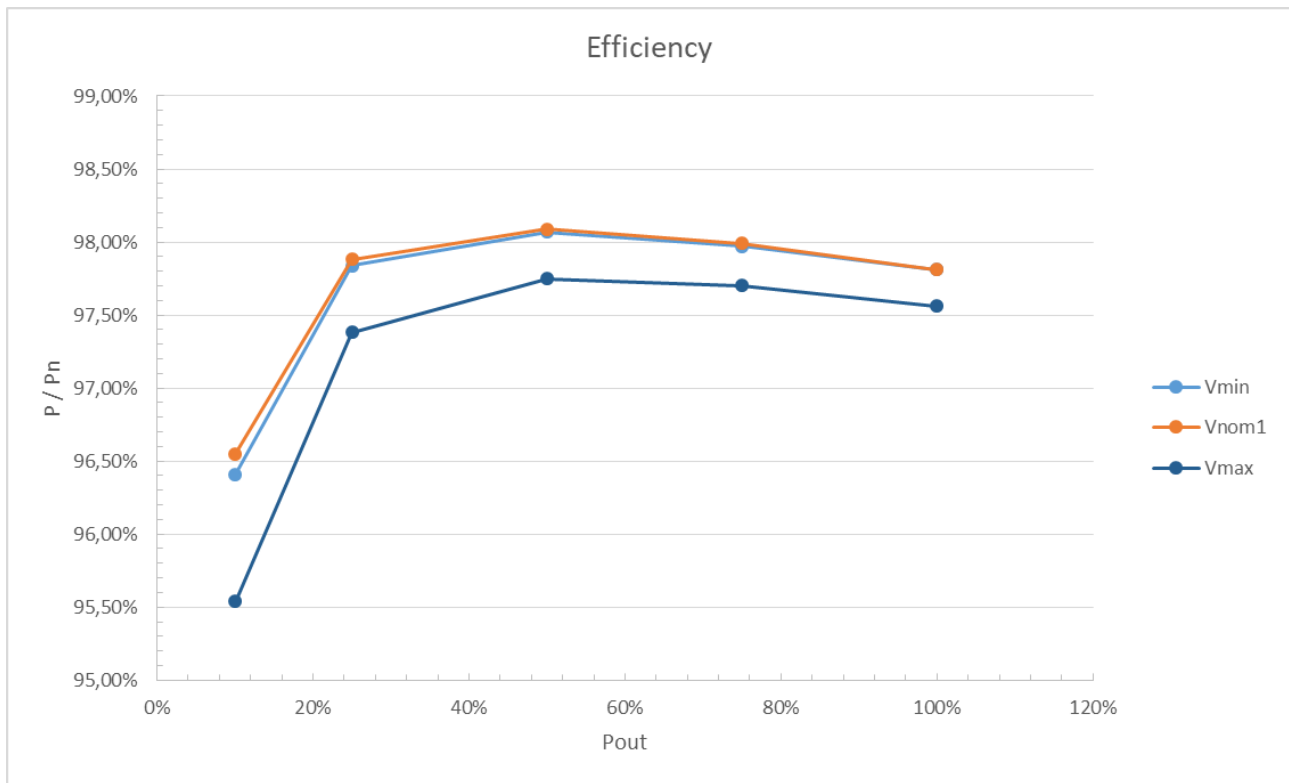
Nr. 19TH0534-IEC61683_0

Efficiency measurement conditions test results

SE27.6K

Power in [W] (nom. 27600W)

Input voltage [Vdc]		Power in [W] (nom. 27600W)				
		10%	25%	50%	75%	100%
		2500	6250	12500	20700	25000
		η in [%]				
V_{min}	700	96,41	97,84	98,07	97,97	97,81
V_{nominal}	750	96,55	97,88	98,09	97,99	97,81
V_{max} (90%)	900	95,54	97,38	97,75	97,70	97,56



Note:

Measuring of efficiency

Extract from test report according the IEC 61683

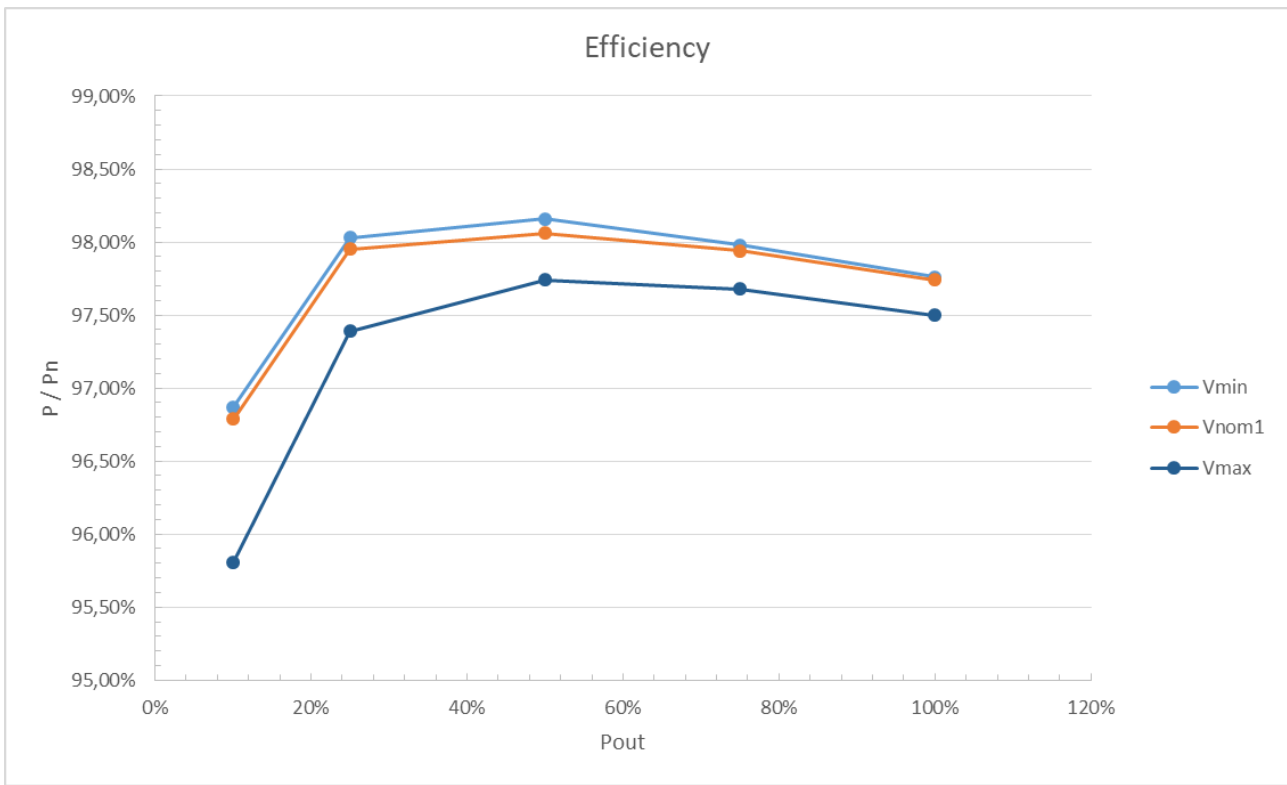
Nr. 19TH0534-IEC61683_0

Efficiency measurement conditions test results

SE30K

Power in [W] (nom. 30000W)

Input voltage [Vdc]		Power in [W] (nom. 30000W)				
		10%	25%	50%	75%	100%
		3000	7500	15000	22500	30000
		η in [%]				
V_{min}	700	96,87	98,03	98,16	97,98	97,76
V_{nominal}	750	96,79	97,95	98,06	97,94	97,74
V_{max} (90%)	900	95,81	97,39	97,74	97,68	97,50



Note:

Measuring of efficiency

Extract from test report according the IEC 61683

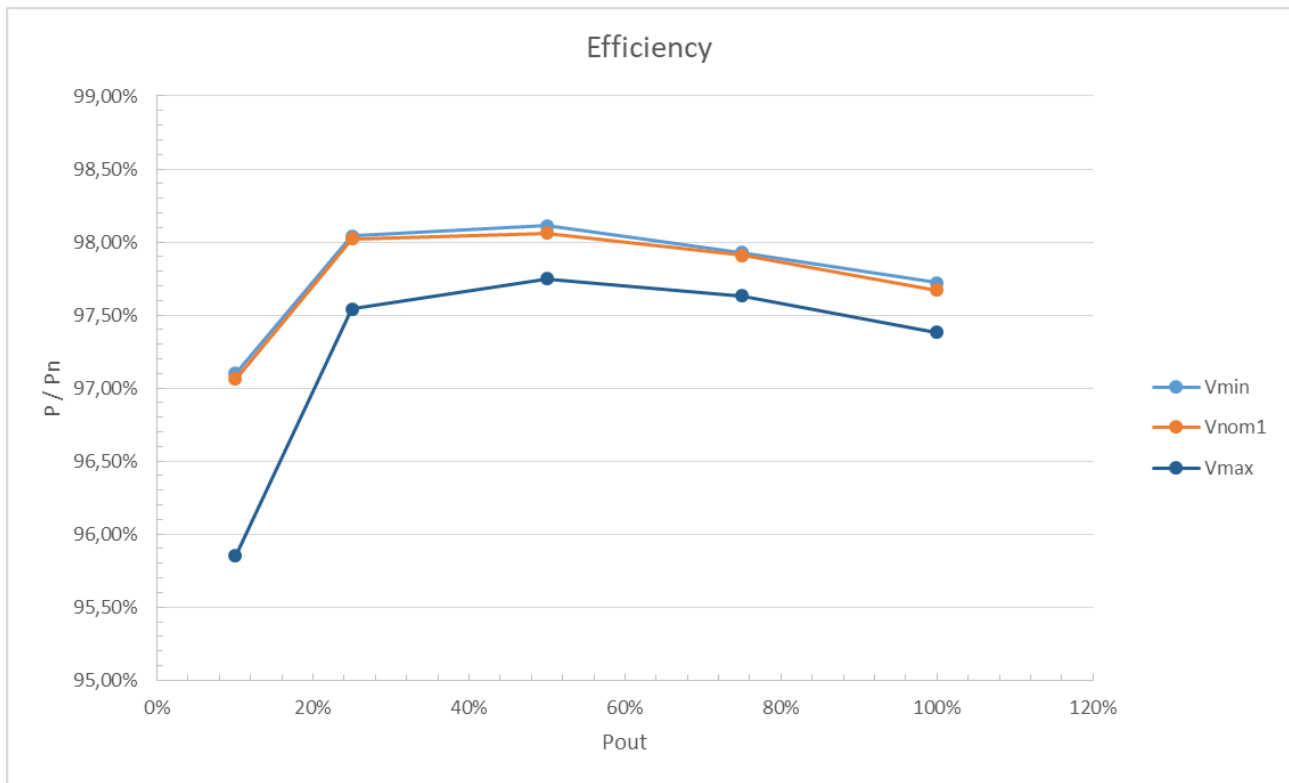
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Efficiency measurement conditions test results

SE33.3K

Power in [W] (nom. 33300W)

Input voltage [Vdc]		Power in [W] (nom. 33300W)				
		10%	25%	50%	75%	100%
		3330	8325	16650	24975	33300
		η in [%]				
V_{min}	700	97,10	98,04	98,11	97,93	97,72
V_{nominal}	750	97,06	98,02	98,06	97,91	97,67
V_{max} (90%)	900	95,85	97,54	97,75	97,63	97,38



Note:

Measuring of efficiency

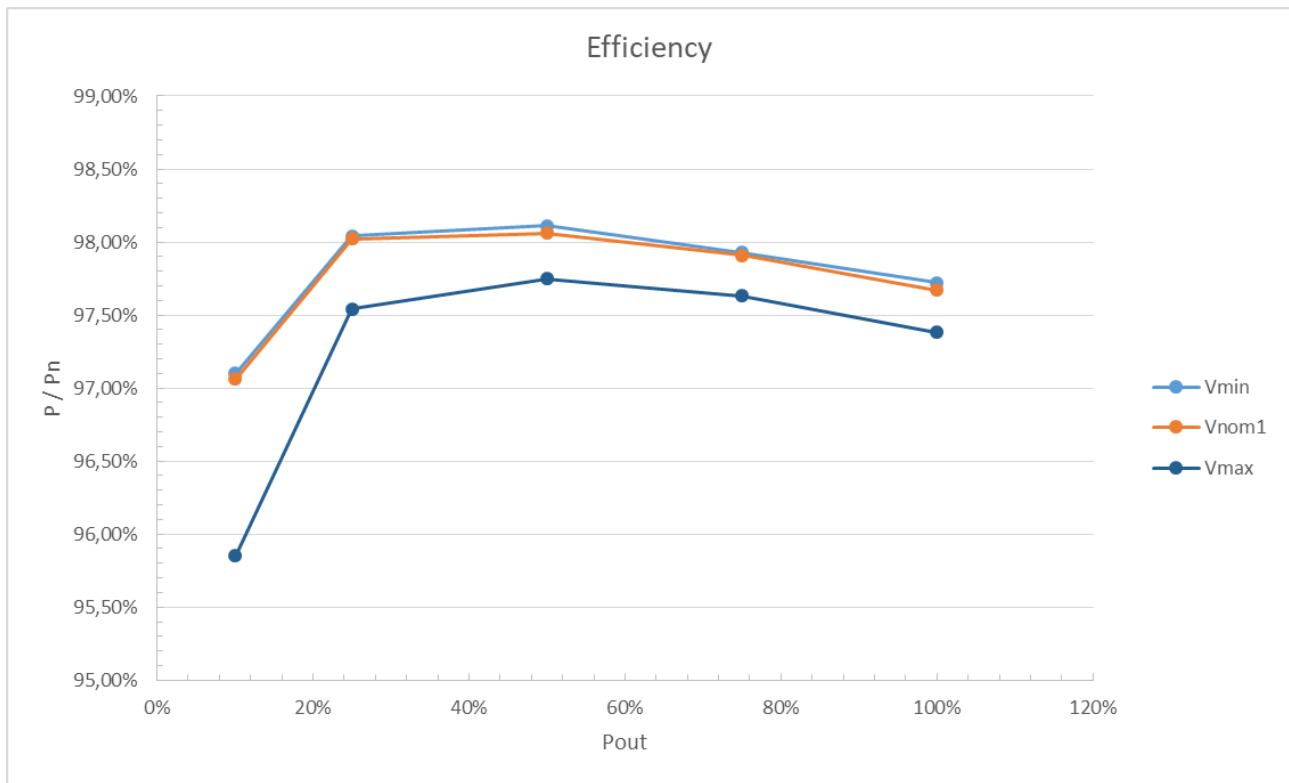
Extract from test report according the IEC 61683

Nr. 19TH0534-IEC61683_0

Efficiency measurement conditions test results

SE30K 277V

Input voltage [Vdc]		Power in [W] (nom. 30000W)				
		10%	25%	50%	75%	100%
		3000	7500	15000	22500	30000
		η in [%]				
V_{min}	790	96,57	98,36	98,51	98,39	98,25
$V_{nominal}$	850	96,52	97,97	98,26	98,23	98,11
V_{max} (90%)	950	95,53	97,59	98,08	98,09	97,99



Note:

Measuring of efficiency

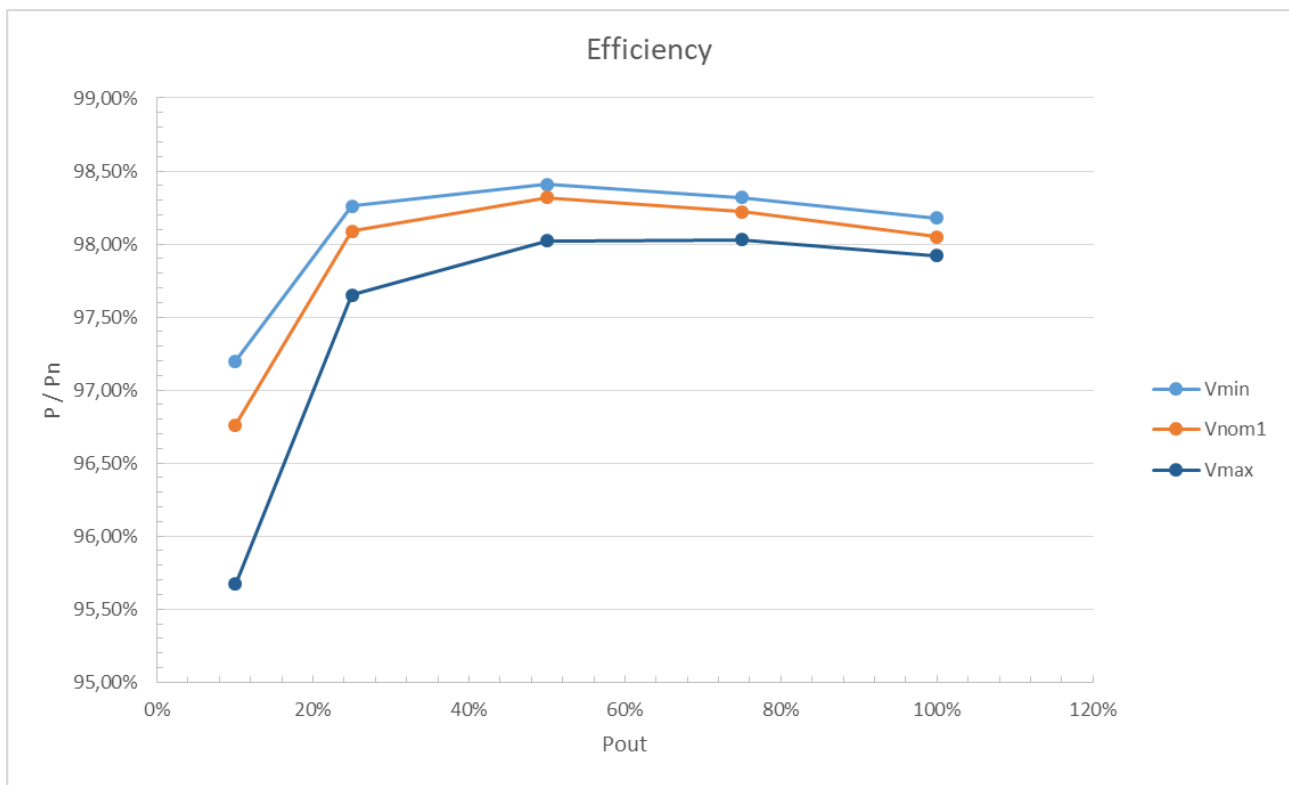
Extract from test report according the IEC 61683

Nr. 19TH0534-IEC61683_0

Efficiency measurement conditions test results

SE33.3K 277V

Input voltage [Vdc]		Power in [W] (nom. 33300W)				
		10%	25%	50%	75%	100%
		3330	8325	16650	24975	33300
		η in [%]				
V_{min}	790	97,20	98,26	98,41	98,32	98,18
V_{nominal}	850	96,76	98,09	98,32	98,22	98,05
V_{max} (90%)	950	95,67	97,65	98,02	98,03	97,92



Note:

Measuring of efficiency

Extract from test report according the IEC 61683

Nr. 19TH0534-IEC61683_0

Efficiency measurement conditions test results

SE40K 277V

Power in [W] (nom. 40000W)

Input voltage
[Vdc]

10%

25%

50%

75%

100%

4000

10000

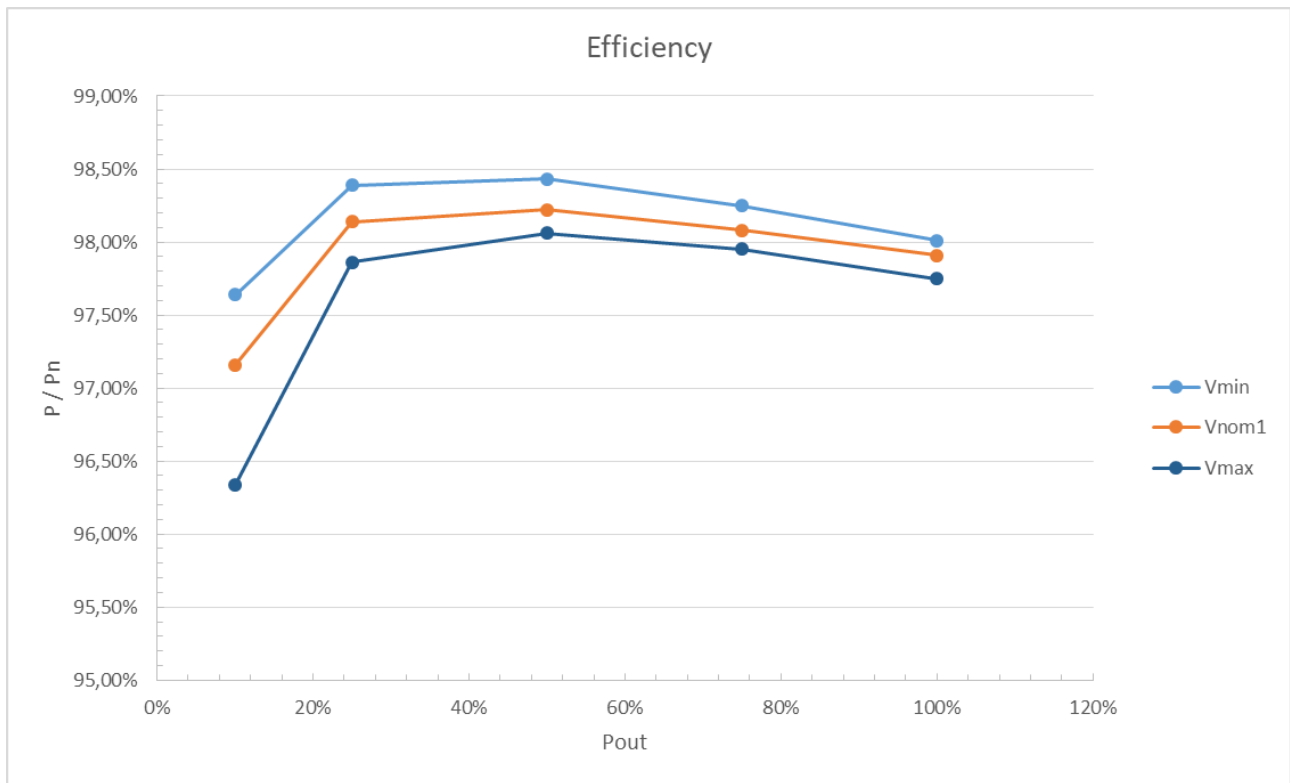
20000

30000

40000

η in [%]

	Input voltage [Vdc]	10%	25%	50%	75%	100%
V_{min}	790	97,64	98,39	98,43	98,25	98,01
$V_{nominal}$	850	97,16	98,14	98,22	98,08	97,91
$V_{max (90\%)}$	950	96,34	97,86	98,06	97,95	97,75



Note: