Certificate of compliance

Applicant:	**SolarEdge Technologies Ltd.** 1 HaMada Street Herzliya 4673335 **Israel**
Product:	**Photovoltaic (PV) inverter**
Model:	SE50K; SE55K; SE66.6K; SE82.8K; SE90K; SE100K SE66.6K*; SE80K*; SE100K*; SE120K* SE55K-IN**; SE82.8K-IN**
Note:	* 480 V mains voltage models ** Models for India

Use in accordance with regulations:

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

Report number:	**20TH0532-IEC61683_0**	**Certification program:**	**NSOP-0032-DEU-ZE-V01**
Certificate number:	**U21-0594**	**Date of issue:**	**2021-06-28**

Certification body

Thomas Lammel

DAkkS Deutsche Akkreditierungsstelle D-ZE-12024-01-00

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

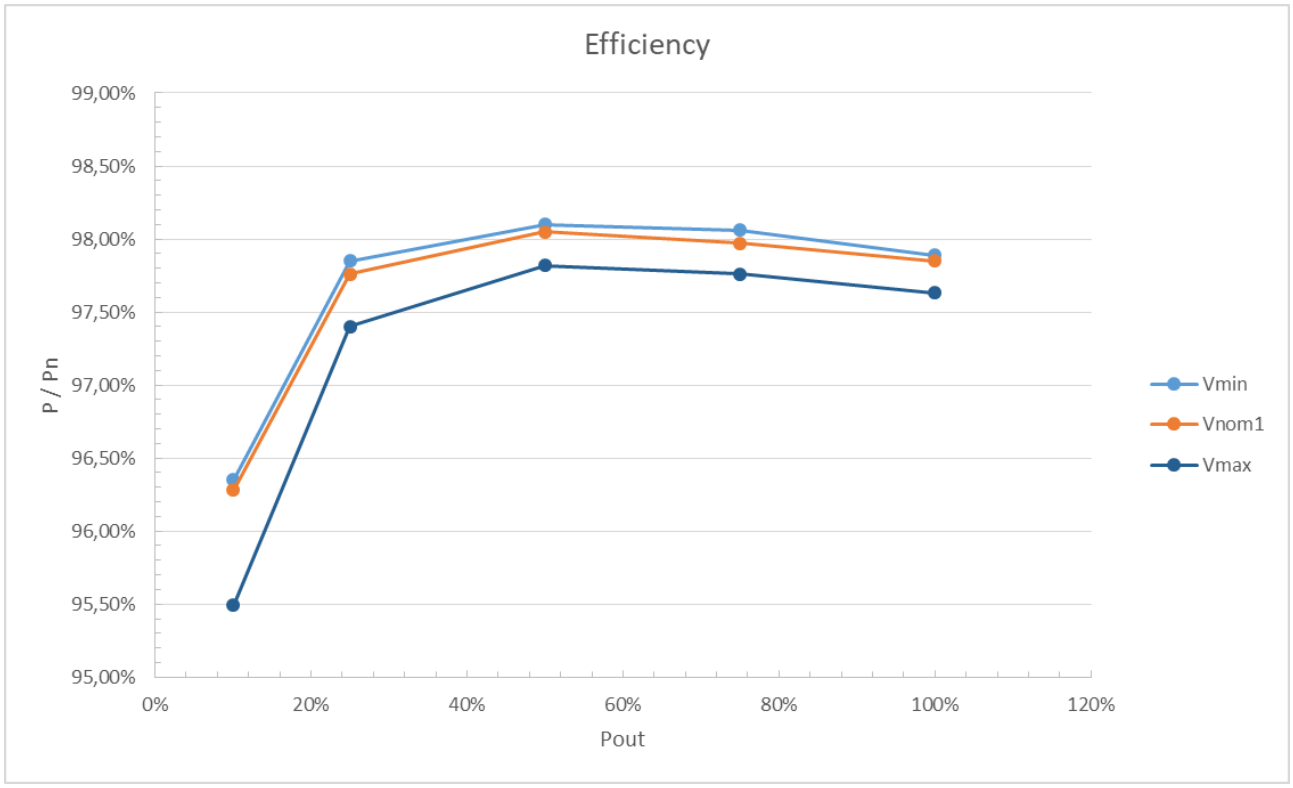
Measuring of efficiency

Extract from test report according the IEC 61683 — **Nr. 20TH0532-IEC61683_0**

Efficiency measurement conditions test results

SE25K

Input voltage [Vdc]		Power in [W] (nom. 25000W)				
		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: The efficiency tests inside the referenced report were not tested on the full unit with a combiner box. The efficiency tests are only related to the inverter model and the losses of the combiner box and the connections between are not taken under consideration.

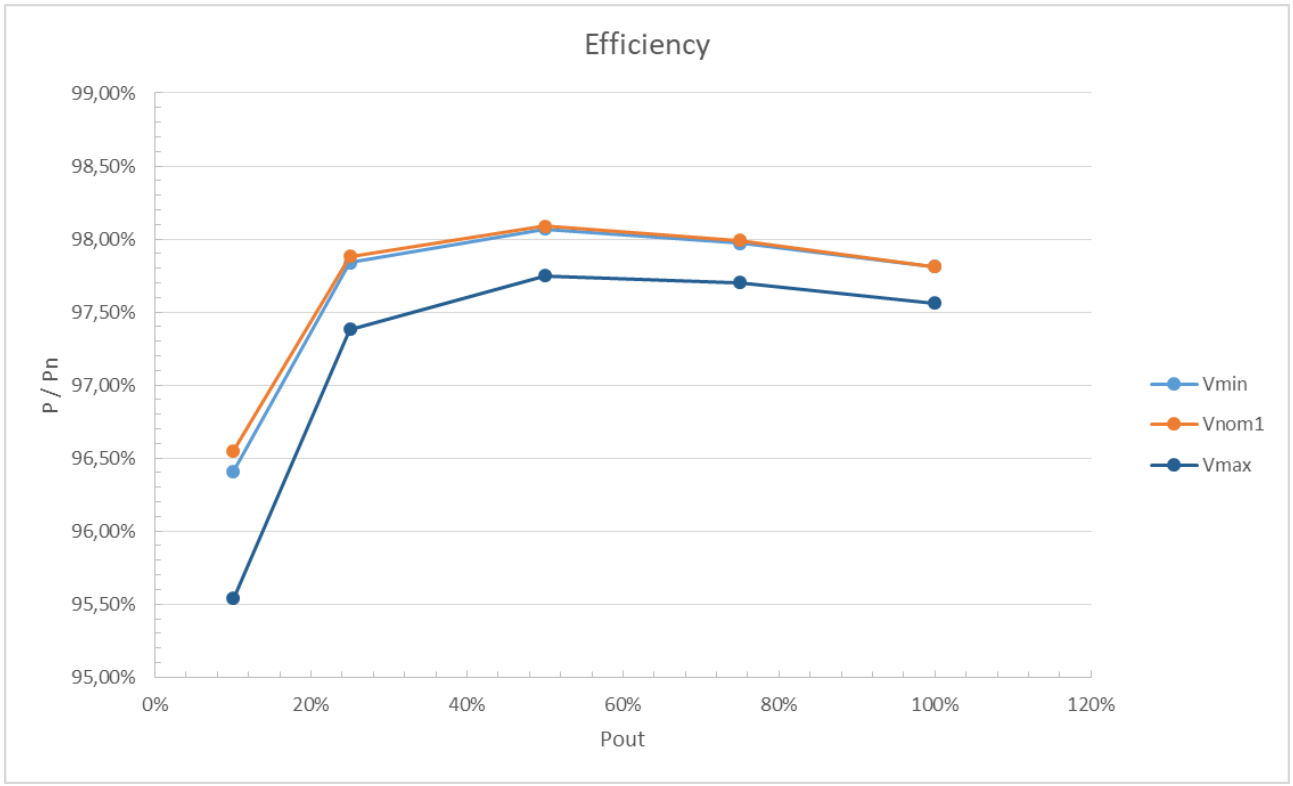
Measuring of efficiency

Extract from test report according the IEC 61683 **Nr. 20TH0532-IEC61683_0**

Efficiency measurement conditions test results

SE27.6K

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



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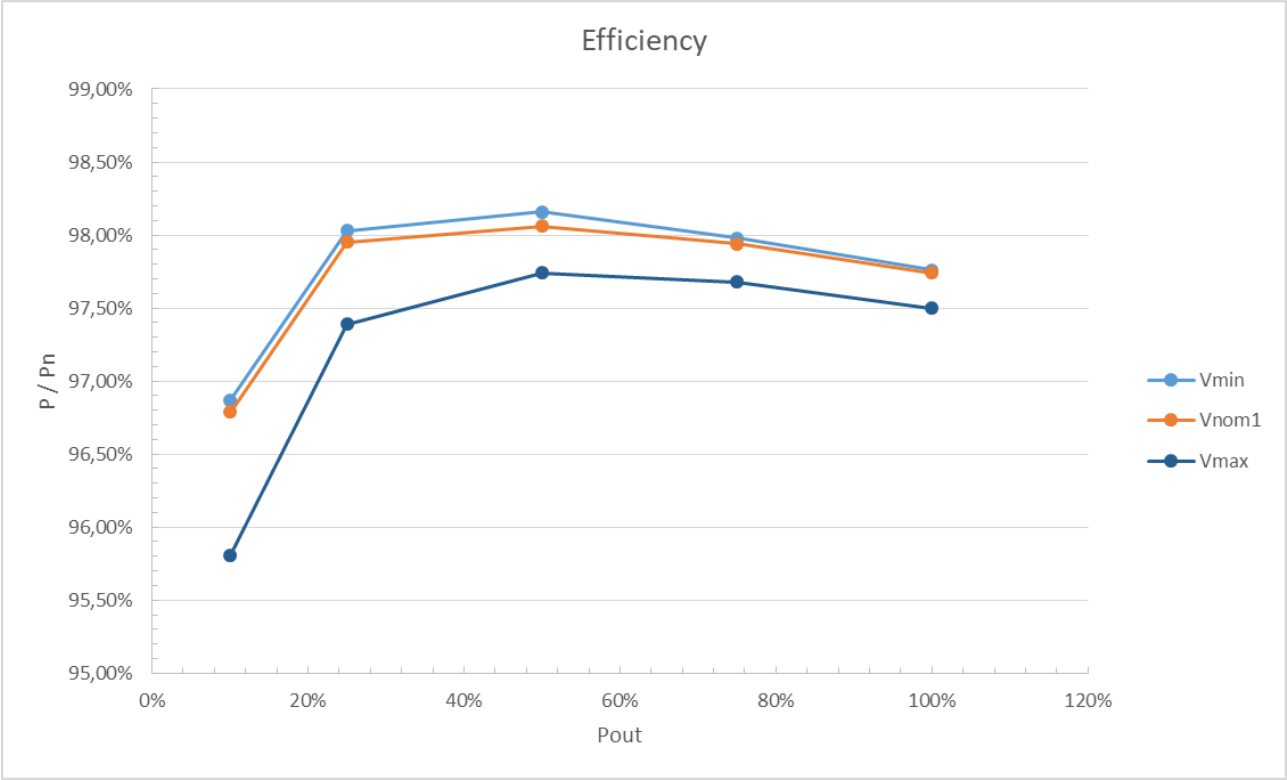
Measuring of efficiency

Extract from test report according the IEC 61683 **Nr. 20TH0532-IEC61683_0**

Efficiency measurement conditions test results

SE30K

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



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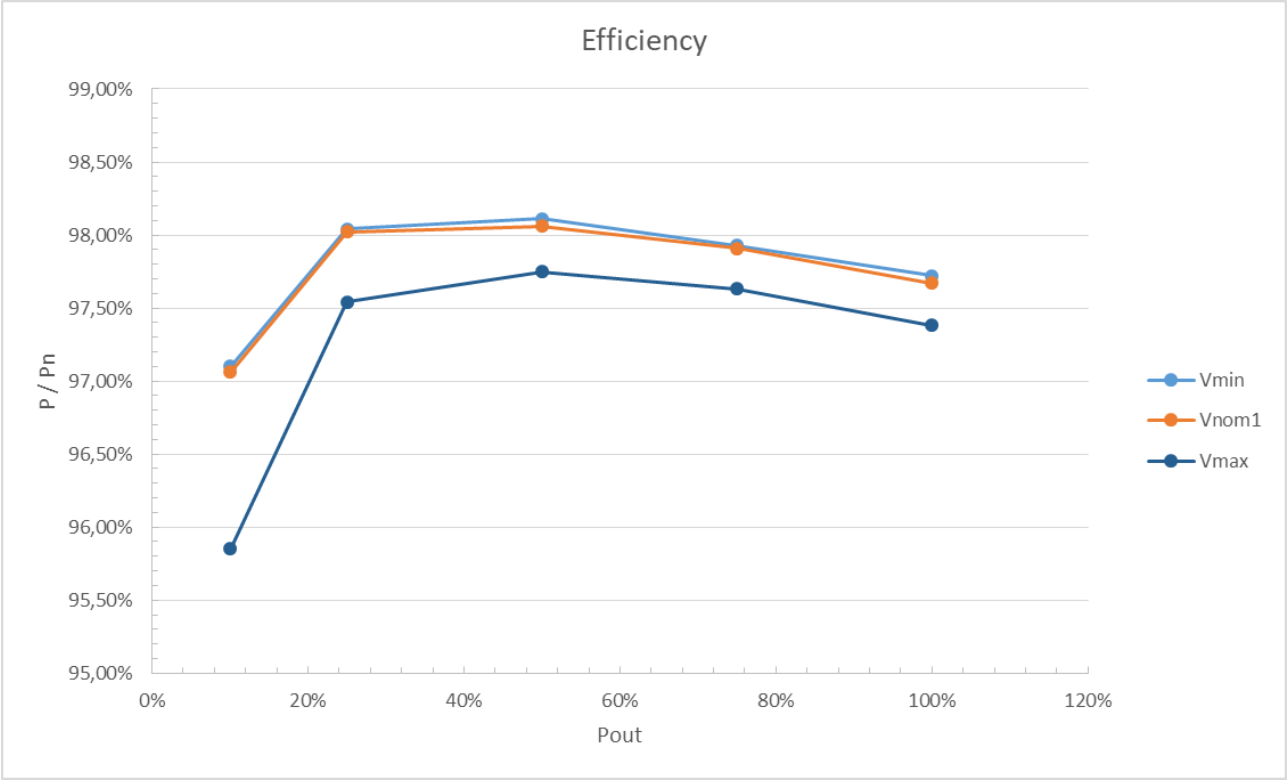
Measuring of efficiency

Extract from test report according the IEC 61683 — **Nr. 20TH0532-IEC61683_0**

Efficiency measurement conditions test results

SE33.3K

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



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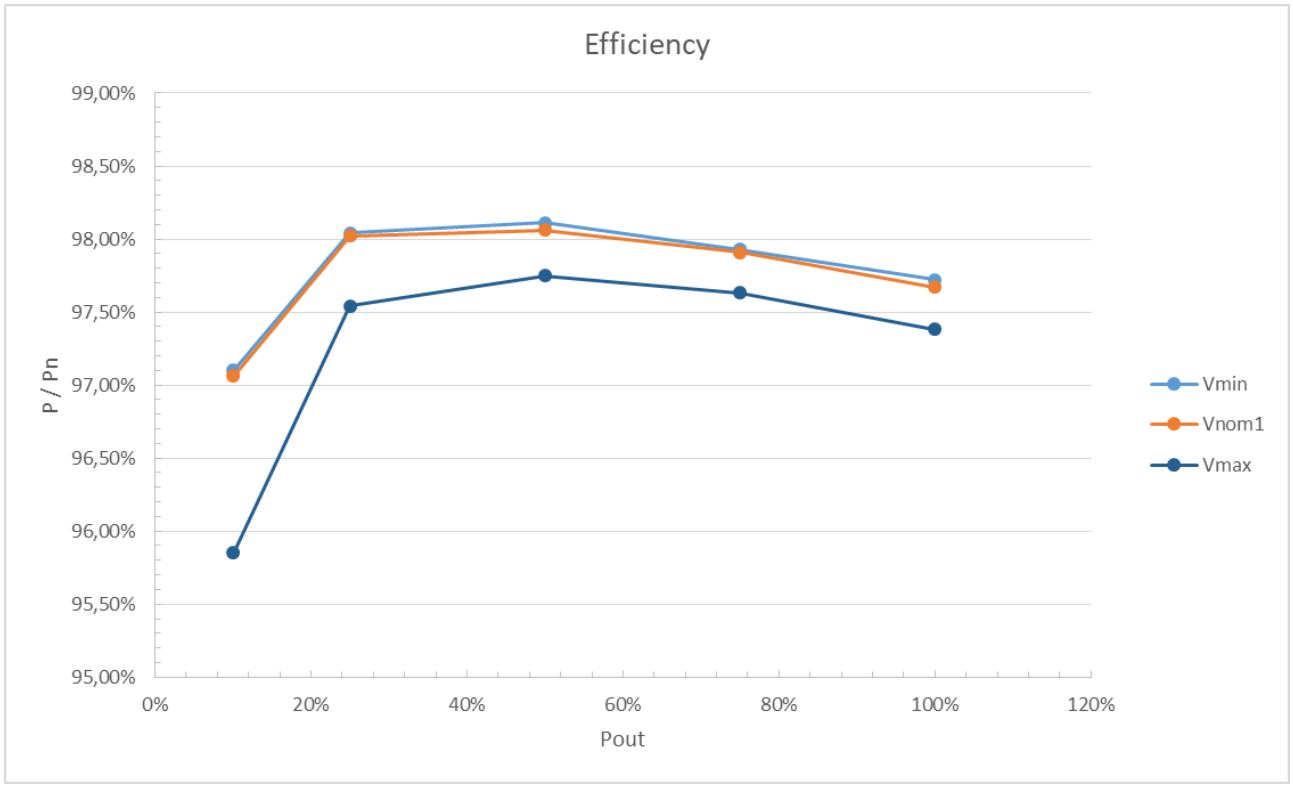
Measuring of efficiency

Extract from test report according the IEC 61683 **Nr. 20TH0532-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



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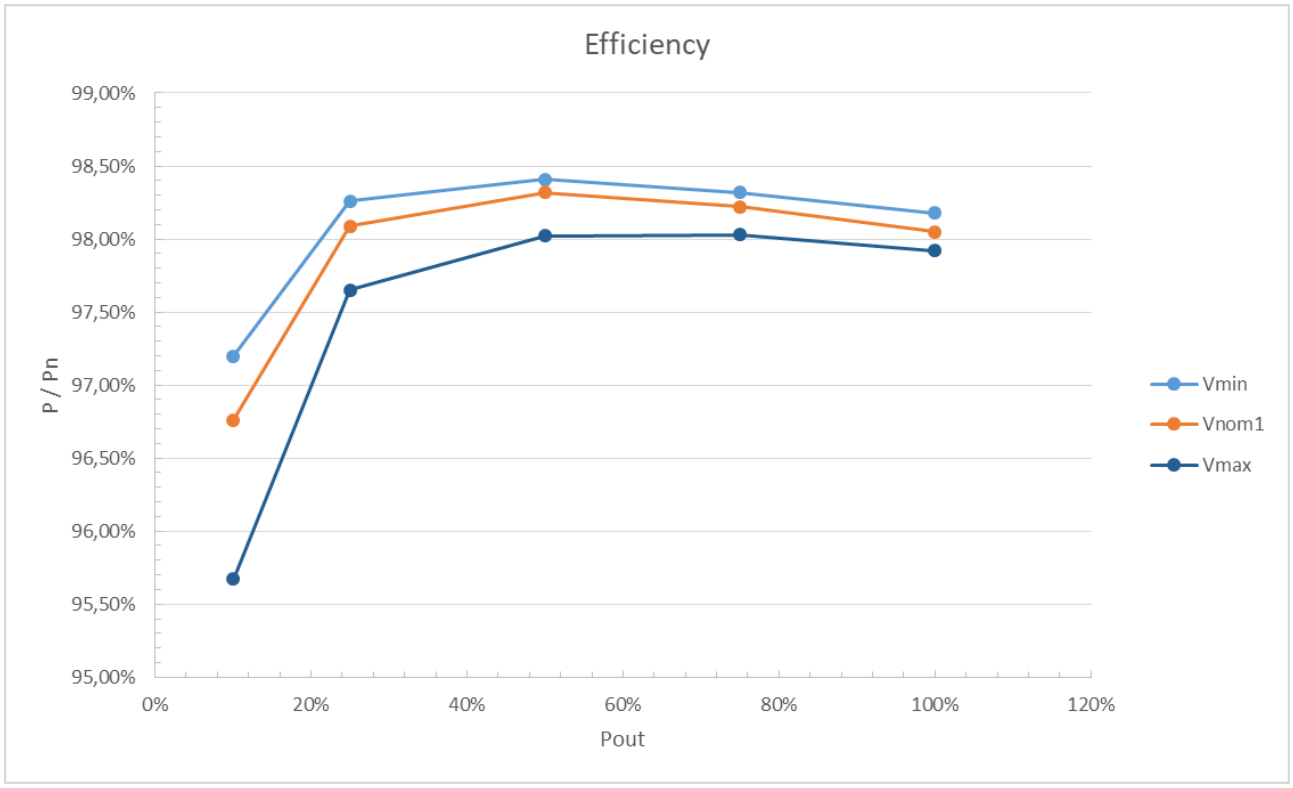
Measuring of efficiency

Extract from test report according the IEC 61683 — **Nr. 20TH0532-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



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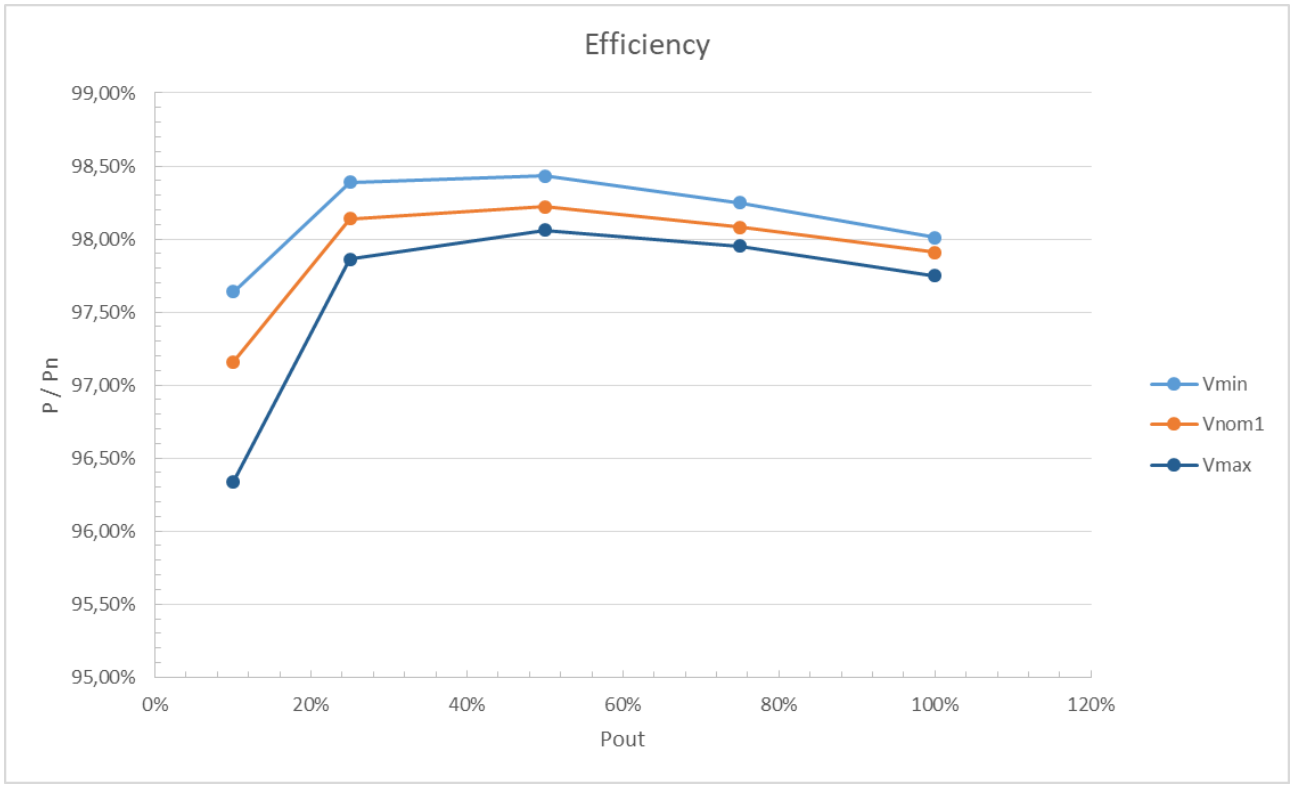
Measuring of efficiency

Extract from test report according the IEC 61683 — **Nr. 20TH0532-IEC61683_0**

Efficiency measurement conditions test results

SE40K 277V

Input voltage [Vdc]		Power in [W] (nom. 40000W)				
		10%	25%	50%	75%	100%
		4000	10000	20000	30000	40000
		η in [%]				
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



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