

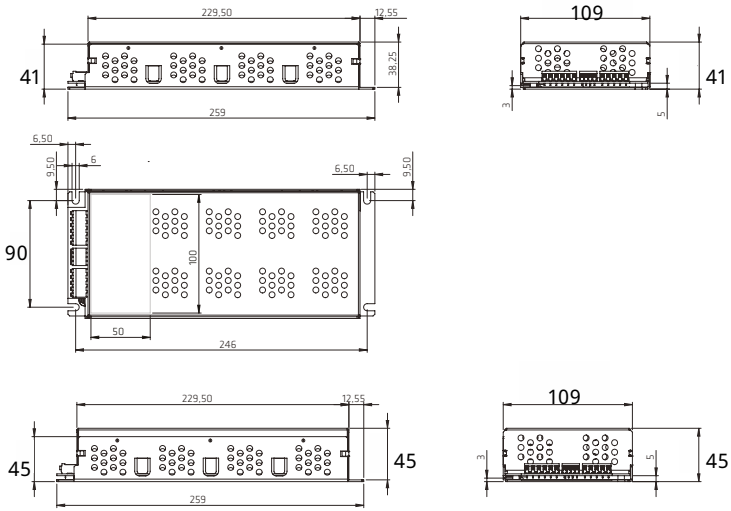
PowerPAQ-300W-230V-PROG-DALI-BI
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI

PRODUCT DESCRIPTION

DA-Group's PowerPAQ drivers have especially been designed for high bay-, flood- & sports lighting applications. Those full feature drivers are DALI 2.0 programmable and support various functions. PowerPAQ drivers come in an IP20 classified housing for built-in use.



MECHANICAL DRAWINGS IP20 ENCASING



KEY FEATURES

- Compact form factor suitable for built-in use
- High level of flexibility by advanced (DALI programmable set of features
- Supports best in class lighting systems by wide dimming range and low flicker performance
- Robust lightning protection
- Low maintenance by high lifetime expectancy
- 12 V auxiliary for remote sensor operation (540 W only)
- Cost effective installations by ultra low inrush current

CERTIFICATES AND STANDARDS



- CE / ENEC
- EN 55015:2013 / EN 61547:2009 / EN 61000-3-2:2014 / EN 61000-3-3:2013 / EN 61347-1:2015 / EN 61347-2-13:2014 / EN 62384:2006 / IEC 62386-102:2009 / IEC 62386-207:2009

5 YEARS LIMITED WARRANTY

DA-Group takes pride in the quality of its products. We not only develop all products in house, they are also produced in our own manufacturing plants to ensure guaranteed reliability and performance. DA-Group's PowerPAQ drivers come with the assurance of a 5 year warranty. After all, with typical LED lifetimes of 50,000 hours, it is critical to have a power supply with equal reliability.

TECHNICAL DATA

Parameter	Unit	PowerPAQ-300W-230V-PROG-DALI-BI	PowerPAQ-540W-230V-PROG-DALI-1_10V-BI
Type		Non-isolated	Non-isolated
Housing dimensions (L x W x H)	mm	109x259x41 mm	109x259x45 mm
Weight	g	750 g	870 g
IP rating		IP20	IP20
Connectors		WAGO 804	Wago 804 and Wago 805
Storage temperature range	degC	-25...+60 °C	-25...+60 °C
Storage humidity range		Non condensing, 5...95 %	Non condensing, 5...95 %
Tc max	degC	+85 °C	+85 °C
Tc life	degC	-40...+80 °C	-40...+80 °C
Operation AC voltage range	V	198...264 V	198...264 V
Input frequency	Hz	50/60 Hz	50/60 Hz
Input DC voltage	V	175...275 V	175...275 V
Max output	W / mA	2 channels 150 W / 700 mA, in parallel 300 W / 1400 mA	2 channels 270 W / 700 mA, in parallel 540 W / 1400 mA
Current setting range	mA	150mA...700mA (programmable)	150mA...700mA (programmable)
Output voltage range	V	180...385 V (power limitation 150W per channel)	180...385 V (power limitation 270W per channel)
Max tolerance on output current	mA	700 mA ± 5% (per channel)	700 mA ± 5% (per channel)
Maximum Pout (in normal operation)	W	300W, Power limitation 150 W per channel	540 W, Power Limitation 270W per channel
Flicker index (< 50 kHz)		< 0,05	< 0,05
Flicker % (< 3kHz)		< 2 %	< 2 %
Flicker % (> 3kHz)		< 4 %	< 4 %
Efficiency @ maximum load		> 0,95	> 0,94
THD @ maximum load		< 15 %	< 15 %
Power factor (PF) @ maximum load		> 0,97	> 0,97
Inrush current (pulses 1 ms)	A	< 4 A	< 4 A
Auxiliary output voltage	V	No	12 V
Max auxiliary output power	W	No	2 W
Standby power	W	<500mW	<500mW
Surge protection / L - N	kV	4 kV	4 kV
Surge protection/ L - GND, N - GND	kV	6 kV	6 kV
Lifetime	Hrs	50.000 h @ Tc life	50.000 h @ Tc life
Dimming method		DALI 2.0 ready - Device class 6	DALI 2.0 ready - Device class 6, 1-10V Dimming source current from the driver: 700uA max.
Dimming range	Hz	Linear dimming: 100...10%, PWM dimming: 10%...1% (400-500Hz)	Linear dimming: 100...10%, PWM dimming: 10%...1% (400-500Hz)
Number of Terminals		Inputs: 1.Mains, L, N and PE (3) 2.DALI (2) 3.NTC connection (2) Output: 1.Drive output 2CH (4)	Inputs: 1.Mains, L, N and PE (3) 2. 1...10V (2) 3.DALI (2) 4.NTC connection (2) Output: 1.Drive output 2CH (4) 2.Auxiliary output (2)

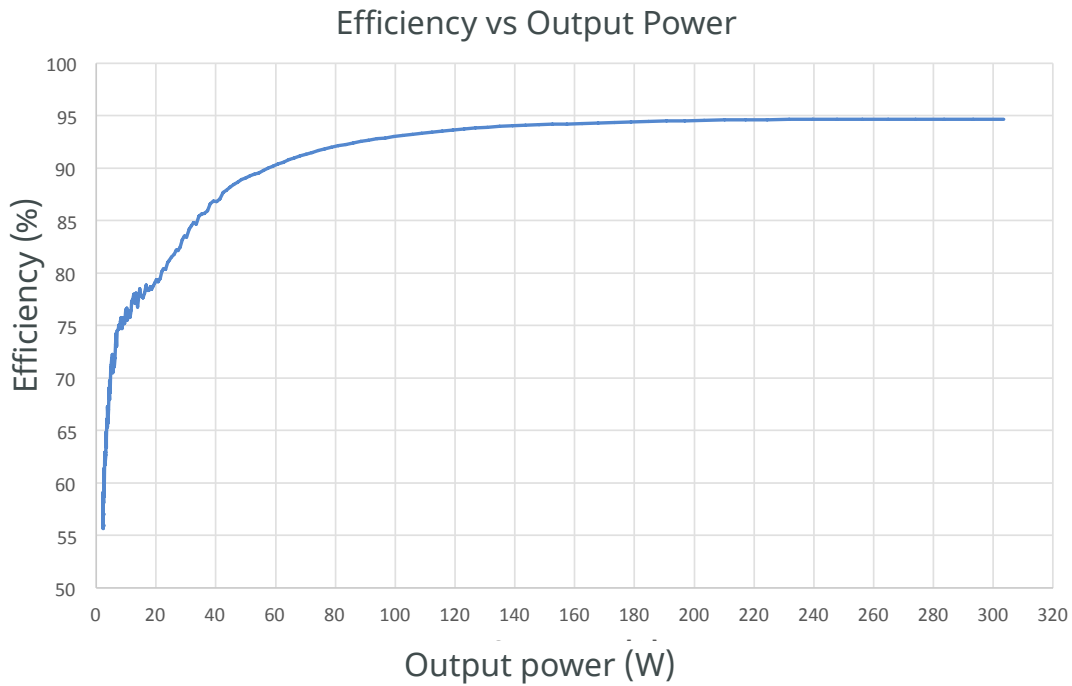
TECHNICAL DATA

Parameter	Unit	PowerPAQ-300W-230V-PROG-DALI-BI	PowerPAQ-540W-230V-PROG-DALI-1_10V-BI
CLO		Yes, programmable	Yes, programmable
AstroDim		Yes, programmable	Yes, programmable
SwitchDim		Via 220 V on DALI input	Via 220 V on DALI input
Corridor function		Yes, programmable	Yes, programmable
Additional features		Input voltage measurement, SW upgrades supported via DALI bus	Input voltage measurement, SW upgrades supported via DALI bus
External temperature measurement		External NTC	External NTC
Circuit Protections		Short and open circuit, overload and cold start protection, Temperature protection (dim when Tc exceeding Tc max)	Short and open circuit, overload and cold start protection, Temperature protection (dim when Tc exceeding Tc max)
Approvals		CE, RoHS, ENEC	CE, RoHS, ENEC

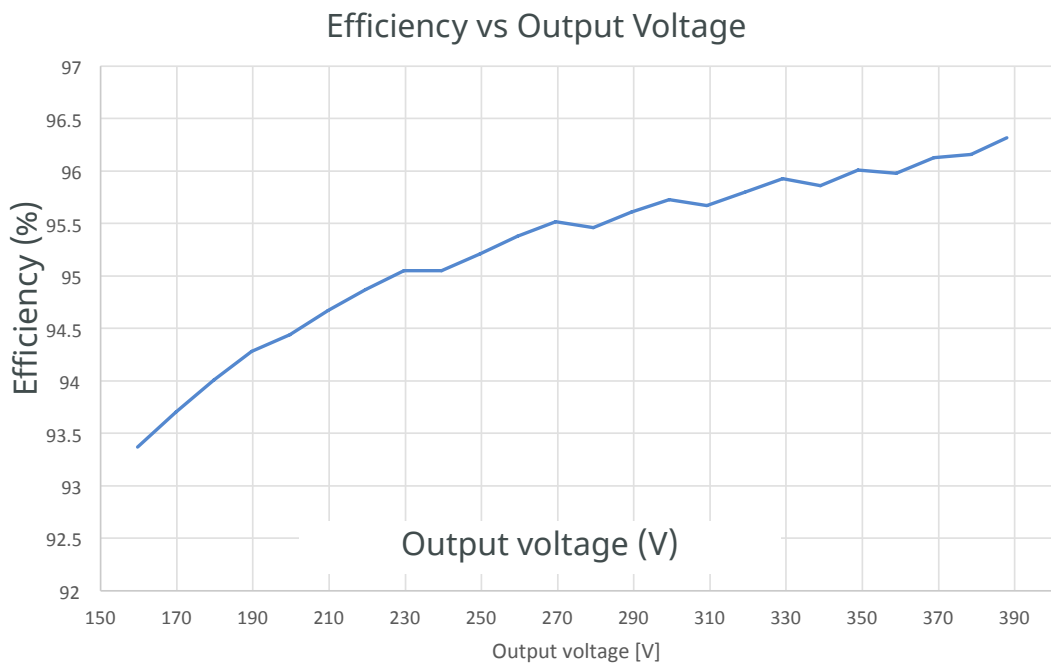
ORDERING DATA

Product description	Ordering code	Box quantities (pcs)	Pallet quantity = MoQ (pcs)	Bruto weight	Netto weight
PowerPAQ-300W-230V-PROG-DALI-BI	VP600001	10	300 (30 boxes)	8,1kg (10pcs) á 0,81kg	7,15kg (10pcs) á 0,715kg
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI	VP600002	10	300 (30 boxes)	8,1kg (10pcs) á 0,81kg	8,44kg (10pcs) á 0,844kg

EFFICIENCY VS OUTPUT POWER
PowerPAQ-300W-230V-PROG-DALI-BI

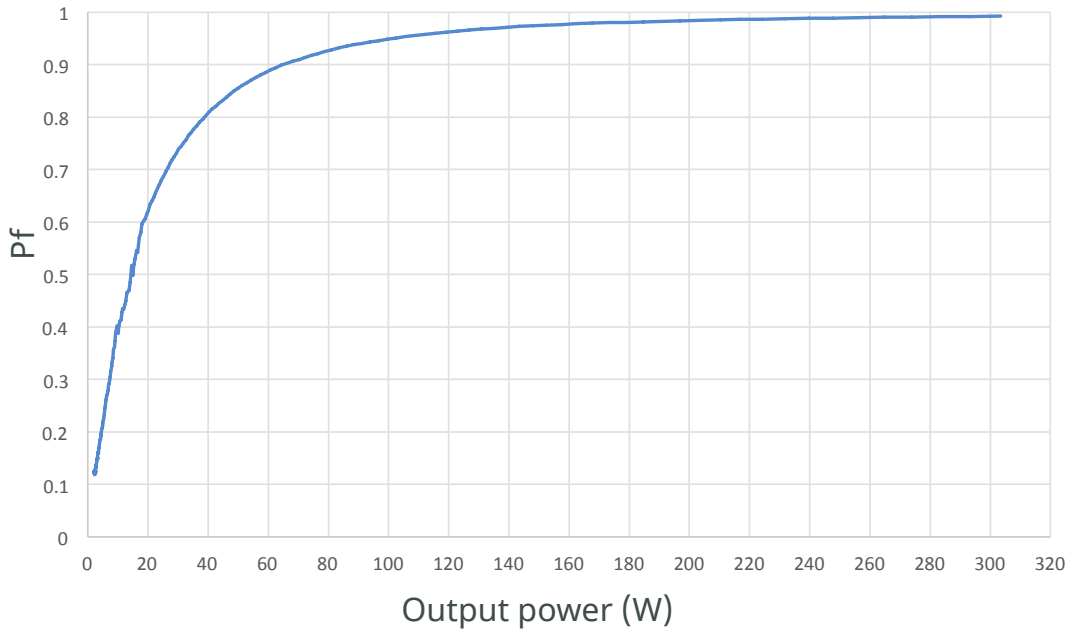


EFFICIENCY VS OUTPUT VOLTAGE
PowerPAQ-300W-230V-PROG-DALI-BI

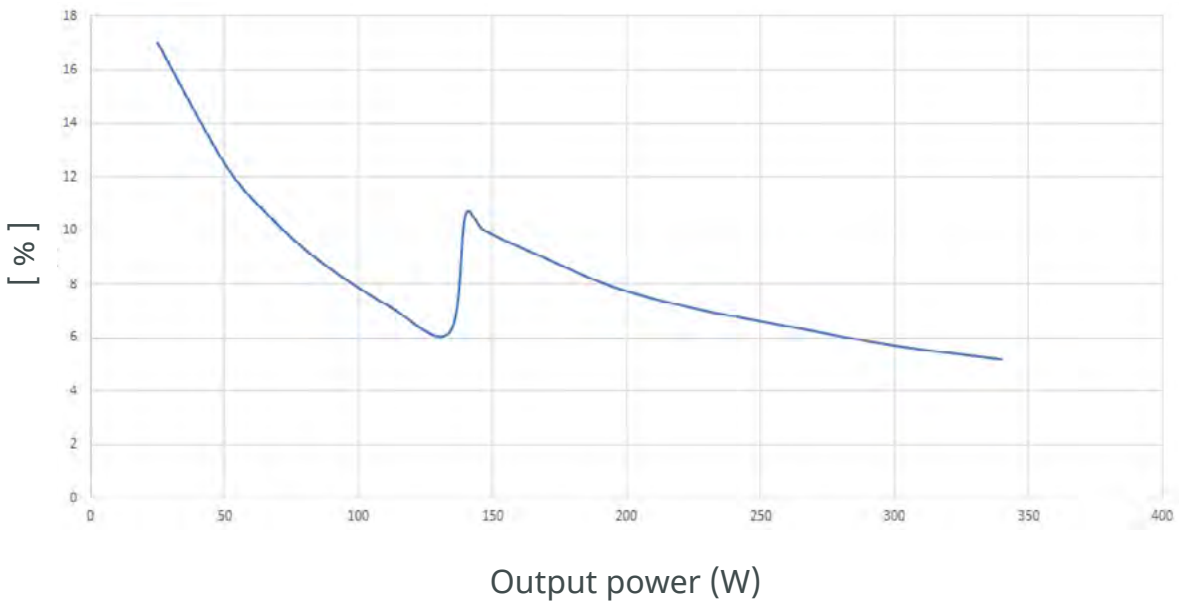


POWER FACTOR VS OUTPUT POWER
PowerPAQ-300W-230V-PROG-DALI-BI

Power factor vs Output Power

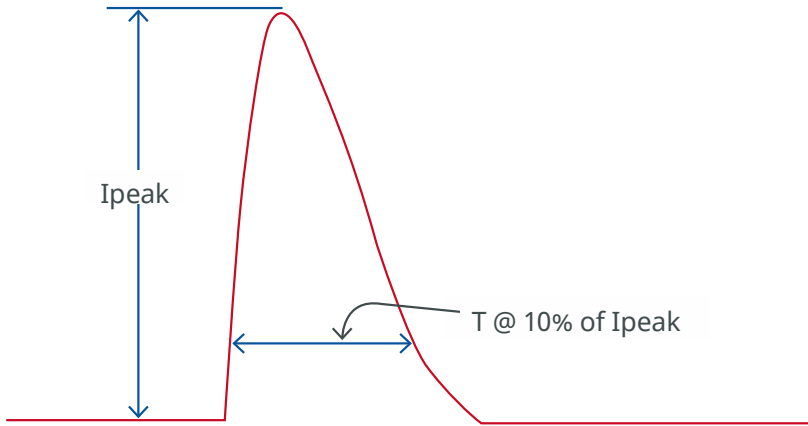


THD



POWER FACTOR VS OUTPUT POWER
PowerPAQ-300W-230V-PROG-DALI-BI

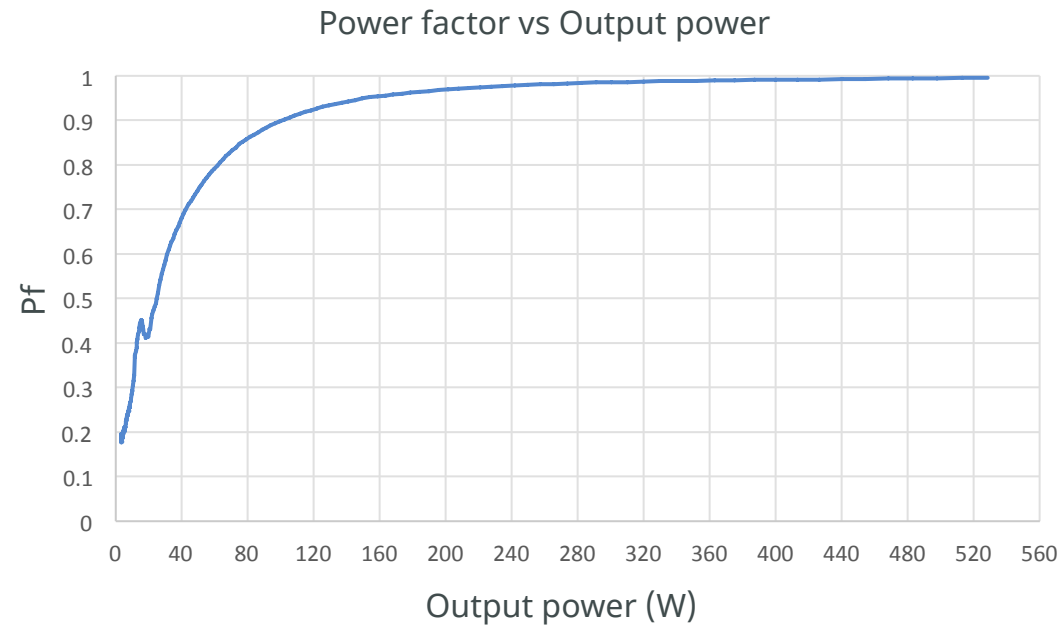
Inrush current < 4A (pulses greater than 1ms)
Inrush current 15A T= 170us @ 230Vac T=10% of Ipeak



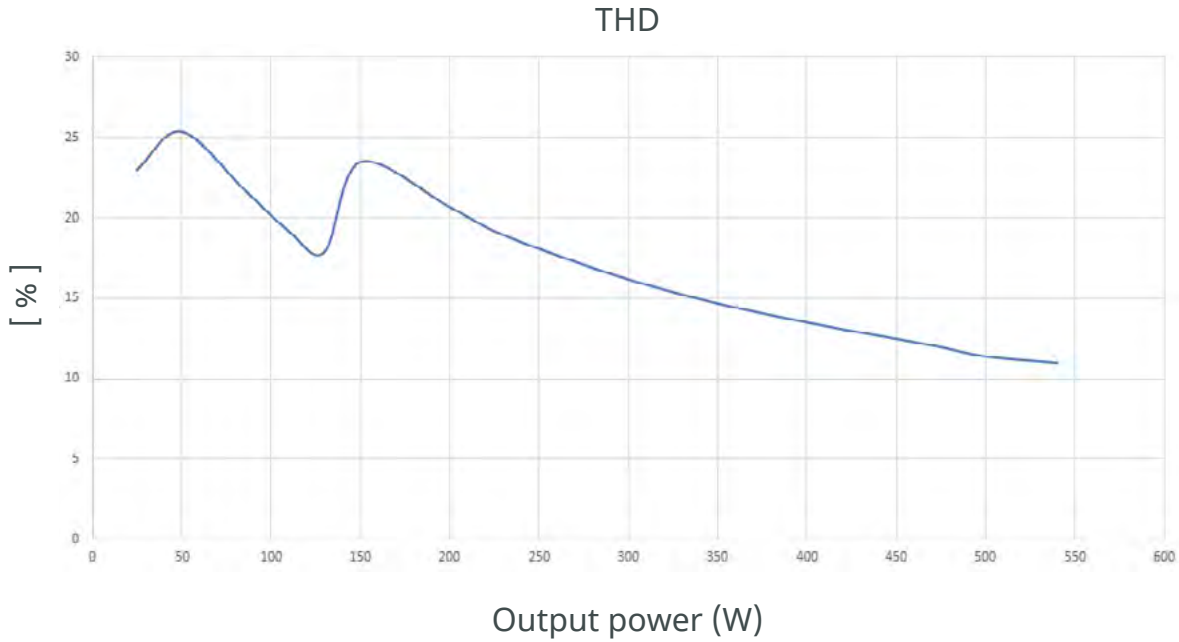
EXTERNAL NTC

Murata NCP18XV103J03RB (default)
Others can be configured via PCSW

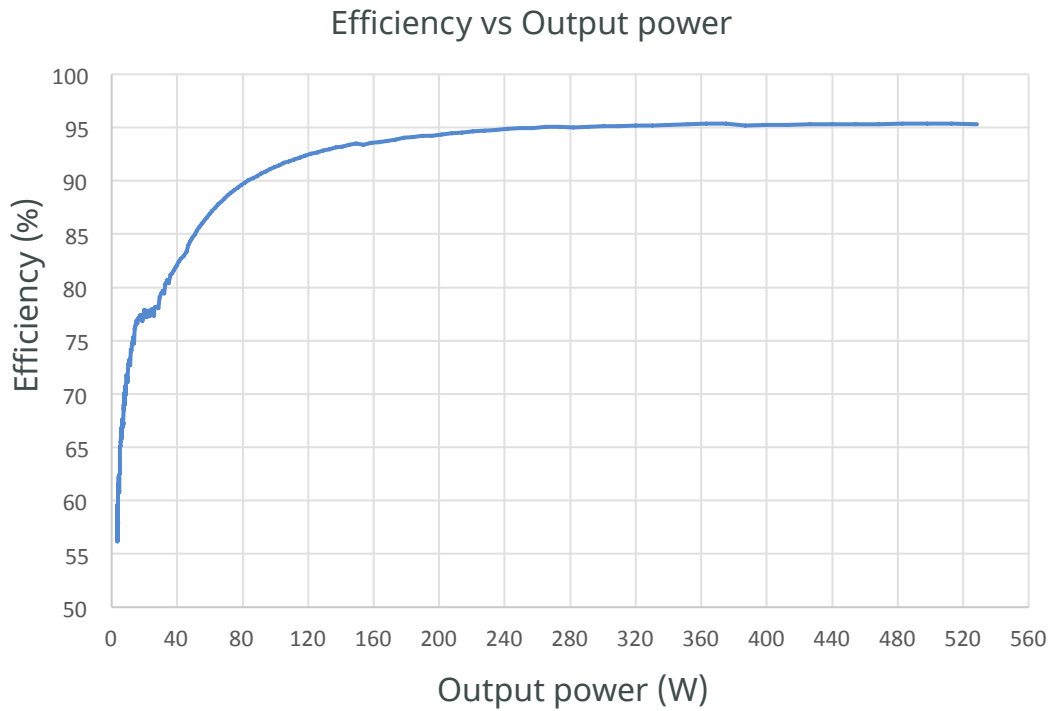
POWER FACTOR VS OUTPUT POWER
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI



POWER FACTOR VS OUTPUT POWER
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI



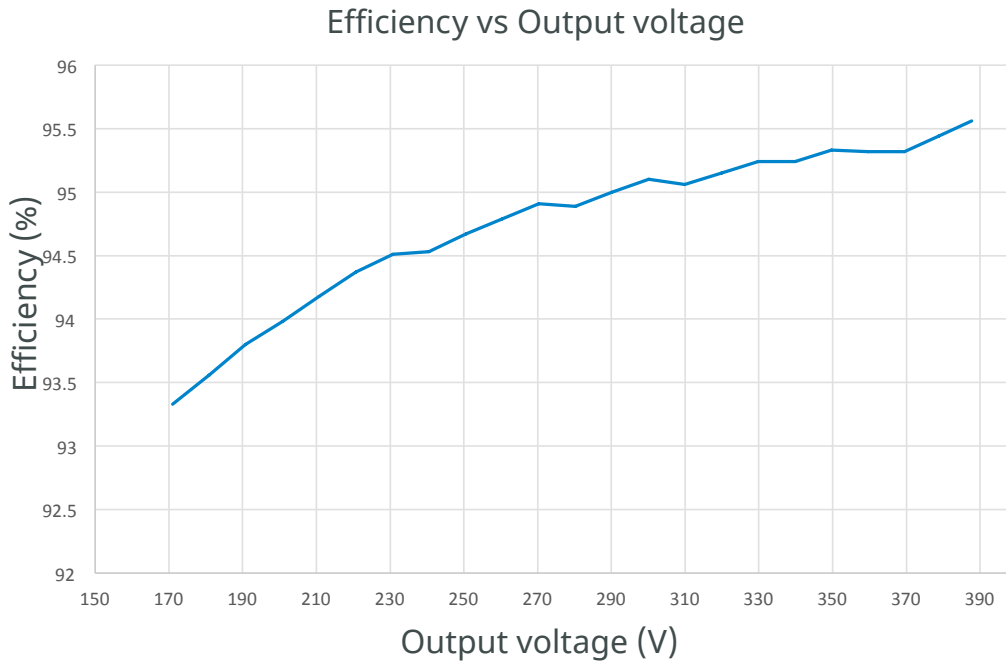
EFFICIENCY VS OUTPUT POWER
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI



Murata NCP18XV103J03RB (default)
Others can be configured via PCSW

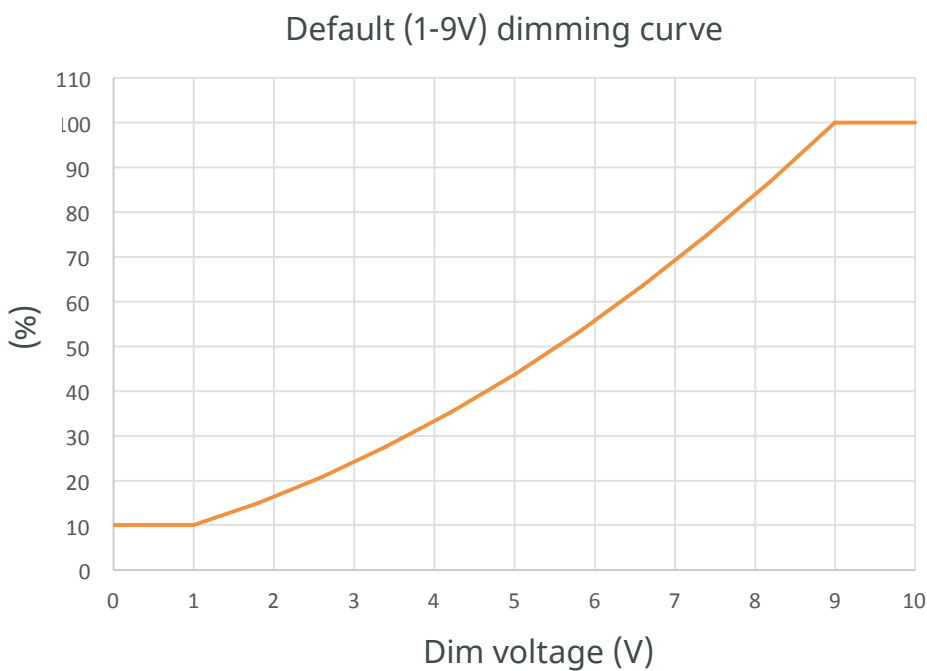
EFFICIENCY VS OUTPUT VOLTAGE (AT MAX OUTPUT CURRENT)

PowerPAQ-540W-230V-PROG-DALI-1_10V-BI

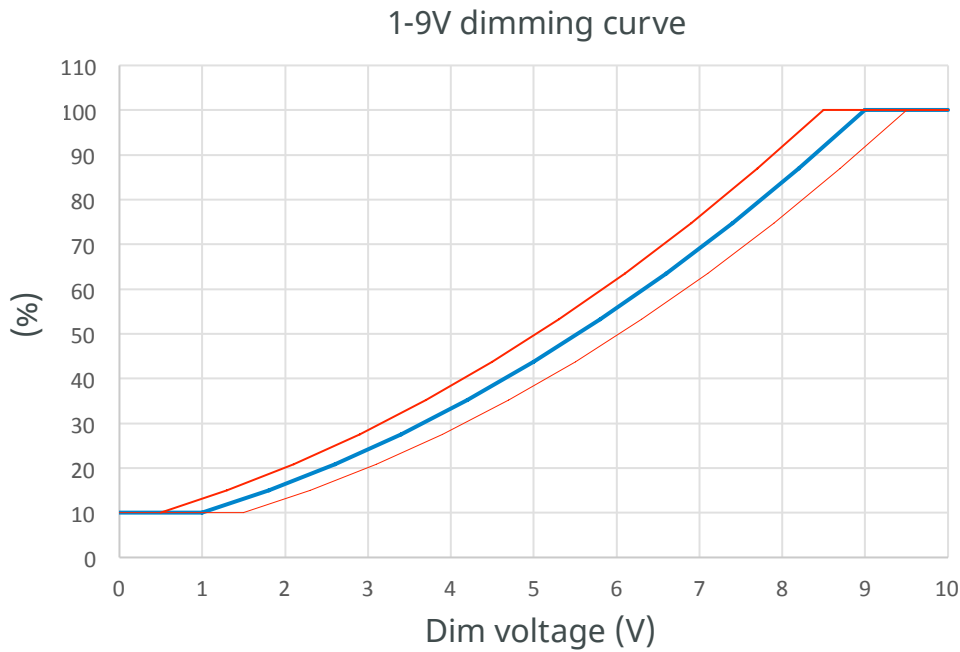


1-10V

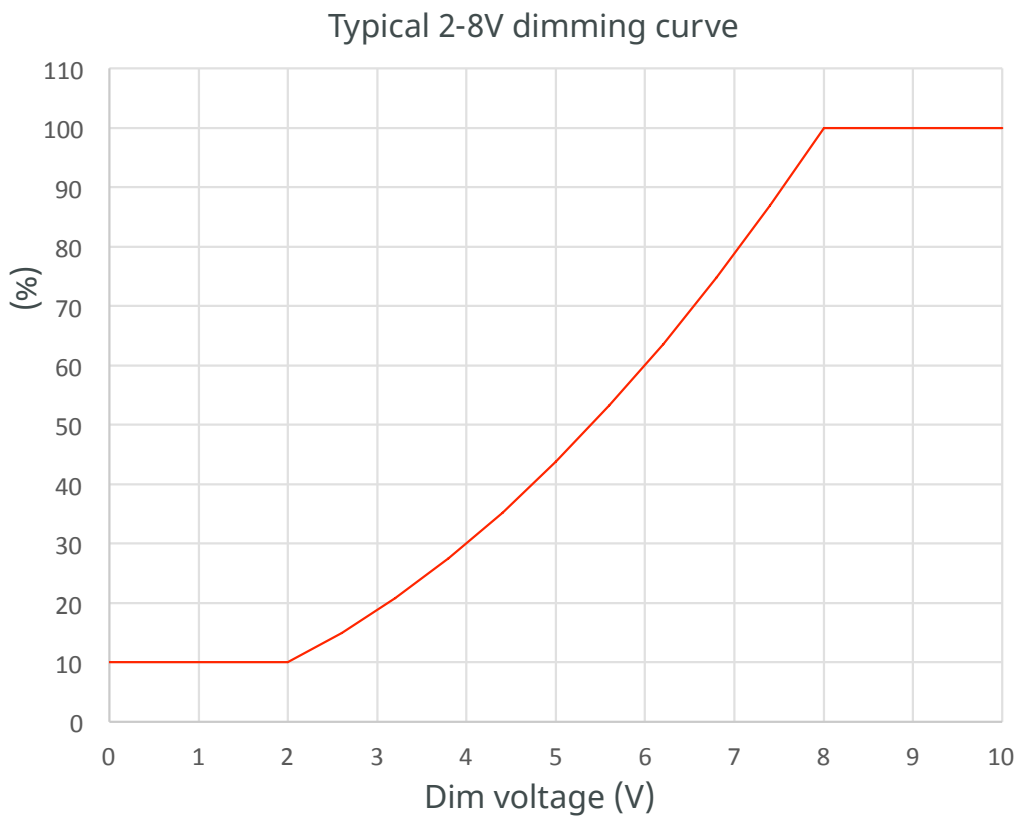
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI



DIMMING CURVE WITH MARGINS ($\pm 0.5V$)
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI

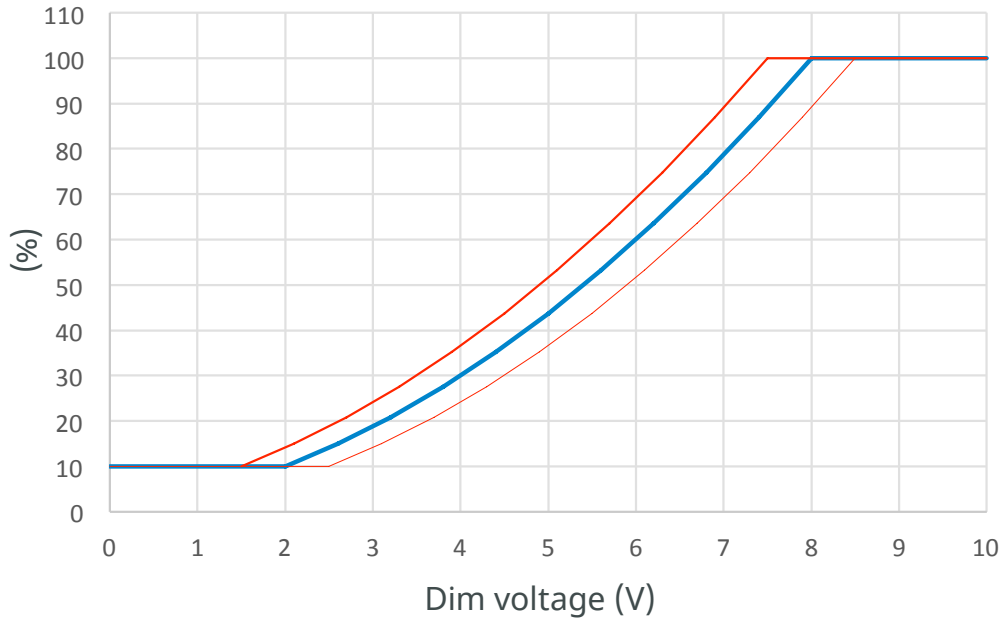


TYPICAL 1-10V (2-8V) DIMMING CURVE
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI

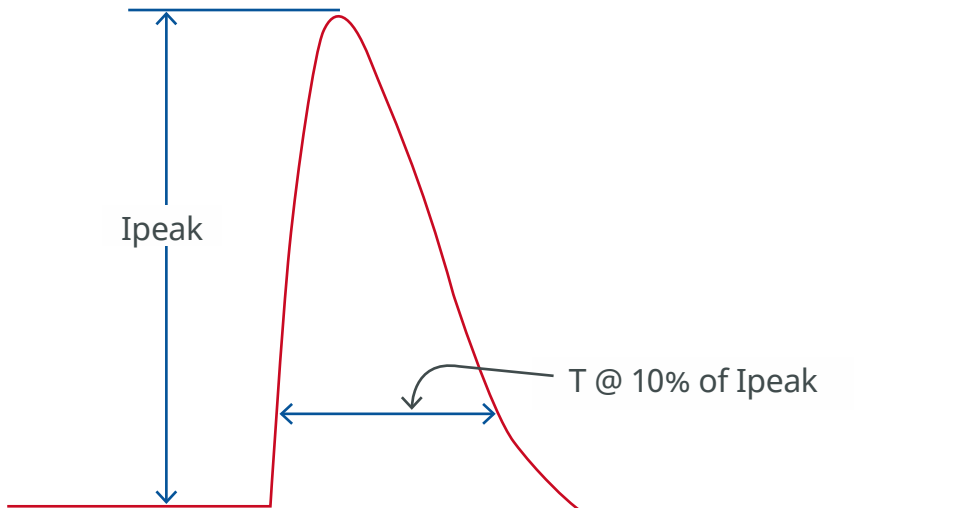


DIMMING CURVE WITH MARGINS ($\pm 0.5V$)
PowerPAQ-540W-230V-PROG-DALI-1_10V-BI

2-8V dimming curve



Inrush current < 4A (pulses greater than 1ms)
 Inrush current 15A T= 170us @ 230Vac T=10% of Ipeak



EXTERNAL NTC

Murata NCP18XV103J03RB (default)
 Others can be configured via PCSW

The information provided in this document is intended for informational purposes only and is subject to change. Information may be changed or updated without notice.

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