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# SmartPower S600-60

## FEATURES

- CW / QCW laser application up to 60 Amps at 600 Watts
- Voltage output 4,5V ... 15V
- Configurable voltage and current versions
- Digital or analog interface galvanic isolated
- Overload protection
- Temperature-controlled fan
- QCW mode by pulse control pin
- Customized solutions possible



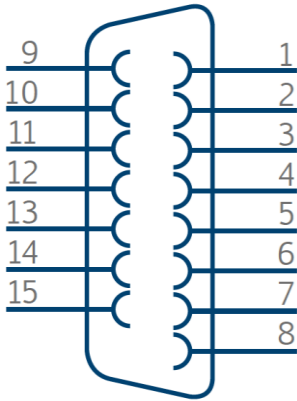
## PARAMETERS

		1 Channel laser diode driver
Current output		0 ... 60 Amps
Voltage output		4,5 ... 15V
Accuracy		<0,5%
Stability		<0.1%
Current ripple		< 0,5% @ full load (BW=20Hz)
Trigger rise / fall time		250µs
Protection circuits		Overcurrent / overvoltage / overtemperature
		Common data
Input voltage		90 ... 265Vac (Derating < 120Vac)
Maximum power consumption		685 Watts
Power Output		600 Watts
Cooling System		Air cooling
Dimensions [mm]		185x130x70 (Length x Width x Height)
Weight		1,35kg
Location of use		Only for inside use
Protection class		II
Degree of protection		IP 20
Radio interference suppression		DIN EN 55011 class A
Noise immunity		EN 61000-6-2 (industrial environment)
UL certification		UL-listed components
Environmental conditions:		
Temperature range		
	Operation	10 ... 40 °C (non-condensing)
	Storage	-10 ... 60 °C
Relative Humidity		
	Operation	≤ 80 % (non-condensing)
	Storage	≤ 99 % (non-condensing)
Vertical height of use		
	Operation	3000 m
	Storage	12000 m



# SmartPower S600-60

## INTERFACE



PIN	FUNCTION	SPECIFICATION AND REMARKS
1	Enable	TTL = HIGH
2	n.c.	
3	Interlock	(connect to GND)
4	GND	
5	V-Monitor*	
6	I-Monitor*	
7	I-Programm*	
8	Pulse control	
9	GND	
10	Output status	
11	Overcurrent indicator	
12	Overvoltage indicator	
13	TXD	
14	RXD	
15	GND	

\*analogue interface only

## MECHANICAL DRAWING

All dimensions are in mm

