



CW Laser Applications

Heraeus has many years of experience in providing DC arc lamps to leading solid-state laser manufacturers. Heraeus arc lamps normally operate in constant DC (or CW) mode and offer high pump efficiency, stability and long lifetimes. Arc lamps can also be supplied for Quasi and modulated CW operation. Typical applications include marking, engraving, cutting, drilling, welding, annealing etc. in many industrial and automotive applications. Heraeus work closely with our customers, extensive internal research facilities and external institutes to provide the industry with quality products. This data sheet is intended to provide some typical examples of common lamps manufactured and readily available. Since lifetime and efficiency is system dependent we welcome enquiries on special designs. Please feel free to contact us at the address below for more information.

Key features of Heraeus CW laser lamps

- Quality raw materials and inspection
- High standards of manufacturing and traceability
- Consistent build quality
- Variety of lamp connections available
- All lamps tested to specification
- Large manufacturing capacity
- Superb customer support
- Excellent technical knowledge
- Highly skilled workforce



Technical Data

Lamp type	NL512B	NL5039	NL5028A	NL5142	NL547	NL5075	NL5178
Bore (mm)	4	4	5	5	6	6	7
Max. wall loading (watts/cm)	400	400	520	520	700	700	800
Arc Length (mm)	76	102	102	120	150	150	150
Overall Length (mm)	215	243	193	251*	300	250	325*
Connector dims (mm)	6.35/19.0	6.35/38.0	5.8/17.5	wires	5.9/16.0	6.35/13	wires
Minimum Current (A)	7	7	10	10	13	13	17
Maximum Current (A)	24	24	33	33	46	46	56
Operating voltage at nom. Currents (V)	145-155 (A) 156-170 (B)	193-207	170-176	220-230	138-152	235-240	195-205
Nominal Current (A)	20	20	30	30	40	40	40

*maximum non-flex

Further technical data available on request

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