

Compact Damage Control Torch

CAPABILITY SHEET · MARINISED NAVAL SEARCHLIGHT · ENGINEERED TO ORDER - NAVY SOTR DESIGN

THE PRODUCT

WHAT	Compact handheld damage-control torch for shipboard emergency parties: a marinised aluminium searchlight - 2,000/3,000 lm low/high, beam penetration >100 m in dense smoke, >=80 min at full output, <=3 kg with accessories, one-hand operation.
STATUS	Engineered to order - designed to the Indian Navy's SOTR for compact damage-control torches; production drawings approved by the naval design authority; acceptance-test and EMI/EMC test plans approved; JSS 55555 qualification regime.
DUTY	Emergency illumination when a compartment loses power - fire, smoke, flooding: continuous ON, press-to-operate and low/high modes on twin sealed switches; toughened non-shattering lens; beam engineered for throw through smoke.

REFERENCE CONFIGURATION

LIGHT ENGINE	Solid-state light engine delivering the 2,000/3,000-lumen duty the SOTR framed for a 30 W metal-halide HID - instant full output, no restrike delay, no arc capsule to break under shock; throw-optimised reflector, flat toughened lens.
BATTERY	Replaceable sealed Li-ion module, 12-18 V, >=4,000 mAh, COTS cell format, M53 thread (168 mm x dia 54 mm); life >=5 years / 1,000 cycles; deep-discharge cutoff at 70% rated voltage; low-voltage and low-capacity warnings.
BODY	Hard-anodised high-strength aluminium, 259 mm long, head dia 108 mm - within the 300 x 150 x 150 mm SOTR envelope; IP65-class ingress per IS 12063; fire-resistant, high-impact; detachable finger-groove grip; 65 degC / 15 min, 90% RH.
CHARGING	<=4 h to full from 220 V 50/60 Hz shipboard supplies; automatic cut-off; charge state 25/50/75/100%; 250 V over-voltage protection; cabling per IS 5608; USB Type-C charge input and USB-A discharge - the module doubles as a power bank.

QUALIFICATION & ASSURANCE

TYPE TEST	JSS 55555:2012 matrix: vibration 2-33 Hz, 55 degC/16 h, drip, damp heat, mould growth 28 days, tropical exposure 7 cycles, salt corrosion, shock NSS Grade II; type test at NABL/government labs, valid 5 years - a first-of-type item.
ELECTRONICS	EMI/EMC per MIL-STD-461; PCBs designed and assembled per JSS 52300 with environmental stress screening; COTS components; MTBF >=1,000 h.
PRODUCTION QA	Quality plan approved by the naval quality authority before manufacture; witnessed factory acceptance tests; 8-hour burn-in on the first 10% of each batch; warranty >=1 year; 10-year support undertaking; manuals per JSS 0251.

VARIANTS & ENGAGEMENT

VARIANTS	Fleet outfits with on-board-spares kits and spare battery pools; qualification to other navies' shock, EMC and ingress regimes; coast guard, merchant marine, offshore and industrial emergency-response fleets.
NAVAL LINE	Sits alongside our shipboard battery chargers, mobile rectifiers and portable power equipment - one supplier discipline for naval electrical and damage-control equipment.
ENGAGEMENT	Send your specification to sales@neometrixgroup.com - clause-by-clause compliance matrix and budgetary quotation within two working days. Export subject to GoI authorisation.

DEFENCE PROGRAMMES DESK

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Reference design reflects the configuration approved against the Indian Navy's SOTR. Output, battery format and qualification regime are re-scoped against the customer's specification at proposal stage.