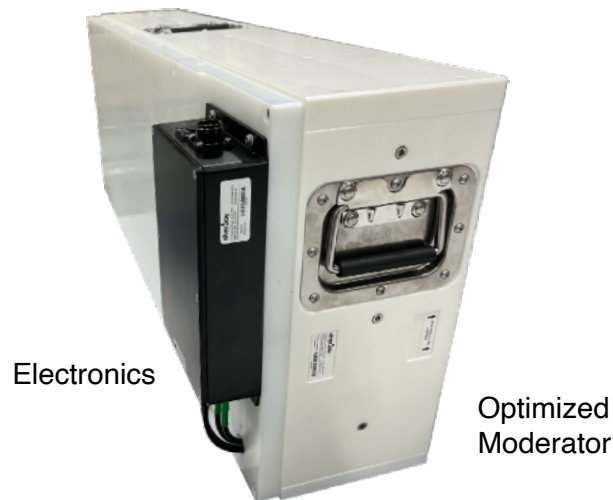


Readout-enabled neutron detector assemblies

ASM-6000 SERIES

Customer configured chamber, moderator, and readout electronics.



Specifications for ASM-6011

Dimensions	Detector: 965 x 413 x 204 mm [38.0 x 16.3 x 8.1 in] Electronics: 148 x 256 x 56 mm [5.8 x 10.1 x 2.2 in]
Weight	54 kg [120 lbs]
Active area surface area	763 x 272 mm [30.0 x 10.7 in]
Gamma rejection	GARR _n = 1.0; $\epsilon_{\text{int}} < 10^{-7}$ [1]
Neutron efficiency	with Standard chambers: +1.9 cps/ng Cf-252 @2m [1] with Plus chambers: +2.2 cps/ng Cf-252 @2m [1] with Double chambers: +2.8 cps/ng Cf-252 @2m [1]
Temperature range	-40 to 60 deg C [2]
Humidity	up to 93% RH [2]
Ingress Protection	IP65, IP67 optional
Power	9-15V DC in; < 1 A power draw

[1] Testing campaigns with integration and test houses

[2] Forsyth, Alison M., Timothy W. Teal, and Andrew Inglis. "Silverside neutron detector performance." Technologies for Homeland Security (HST), 2017 IEEE International Symposium on. IEEE, 2017.

