

# Containerised & Canopied Gensets & Protection Relays - 69

## ISO Containerised Generators - Installation Data

ISO CONTAINERISED SYSTEMS						
Range	Genset Type	Engine	Silent 85-87dB(A)@1m	Silent 84-86dB(A)@1m	Super Silent 78-80dB(A)@1m	Super Silent 82-84dB(A)@1m
Excel	X 715K – X 800K	12V2000	ISO 20 Si	X	CIR 20 SSi	X
	X 910K – X 1000K	16V2000	ISO 20 Si	X	CIR 20 SSi	X
	X 1100K	18V2000	ISO 20 Si	X	CIR 20 SSi	X
	X 1840C - X 2000C	12V4000	ISO 40 Si	X	EUR 40 SSi	CIR 20 SSi
	X 2200C – 2500C	16V4000	X	EUR 40 Si	EUR 40 SSi	X

## Canopied Generators - Installation Data

Type	Canopy	Tank (L)	Fuel Consumption @ 100% Load (L/hrs)	Run time @ 100% Load (Hrs)	Dimensions l x w x h (m)	Weight (1) (kg)	Acoustic power - 50Hz dB (A) 1m	dB (A) @ 7m
T15HK	126	50	5.1	9.8	1.75x0.72x1.23	535	80.8	70.8
T20HK	126	50	6.7	7.5	1.75x0.72x1.23	534	78.4	68.4
T27HK	127	100	7.7	6.5	2.06x0.90x1.42	780	81	71
T7.5K	126	50	2.3	21.7	1.75x0.72x1.23	455	70.1	60.1
T11.5K	126	50	2.5	20.0	1.75x0.72x1.23	535	70.4	60.4
T16K	126	50	4.4	11.4	1.75x0.72x1.23	575	70.7	60.7
T22K	127	100	6.2	16.1	2.06x0.90x1.42	790	71.6	61
J33	127	100	6.8	14.7	2.06x0.90x1.42	970	78.4	68
J44K	127	100	11.19	8.9	2.06x0.90x1.42	1040	79.5	65
J66K	128	180	16	11.3	2.30x1.08x1.68	1490	79.5	70
J77K	128	180	16	11.3	2.30x1.08x1.68	1530	79.5	70
J88K	128	180	19.5	9.2	2.30x1.08x1.68	1530	79.5	70
J110K	129	190	23.5	8.1	2.55x1.17x1.68	1820	77	67
J130K	226	340	26	13.1	3.51x1.20x1.83	2020	78.1	68
J165K	226	340	33.5	10.1	3.51x1.20x1.83	2110	78.6	68.8
J200K	226	340	40.8	8.3	3.51x1.20x1.83	2200	78.6	68.8
J220K	226	340	43.5	7.8	3.51x1.20x1.83	2364	78.6	68.8
J300K	227	390	56.9	6.9	4.00x1.38x2.13	3215	79.5	69.5
J400K	228	470	81	5.8	4.48x1.41x2.43	4170	76.2	66.5
J440K	228	470	81	5.8	4.48x1.41x2.43	4170	76.3	66.5
V220K	227	390	42	9.3	4.00x1.38x2.13	3050	75.7	65.7
V275K	227	390	50.5	7.7	4.00x1.38x2.13	3200	79	69
V330K	228	470	74.4	7.3	4.48x1.41x2.43	3980	79.4	70
V375K	228	470	74.4	6.3	4.48x1.41x2.43	3910	79.4	70
V410K	228	470	74.4	5.8	4.48x1.41x2.43	4320	79.5	69.5
V440K	228	470	81.5	5	4.48x1.41x2.43	4320	79.2	69.2
V500K	229	500	93.3	4.7	5.03x1.56x2.43	4660	79.7	69.7
V550K	229	500	102.1	5	5.03x1.56x2.43	4725	79.7	69.7
V630K	230	500	115.9	4.7	5.03x1.69x2.66	5300	81.8	71.5
X715K	427	930	145	6.4	6.40x2.17x2.72	7876	85.5	76
X800K	427	930	161	5.8	6.40x2.17x2.72	8011	85.9	76
X910K	427	930	178	5.2	6.40x2.17x2.72	8579	85.9	76
X1000K	427	930	204	4.6	6.40x2.17x2.72	8709	83.5	74

## Protection Relays - G59 Setting Guide



Function	Current G59 Standard		Proposed G59/2 Standard	
	Requirement	Setting*	Requirement	Setting*
Under Voltage Stage 1	- 10% for 0.5 sec	207V	- 13% for 2.5 sec	200V
Under Voltage Stage 2	N/A	N/A	- 20% for 0.5 sec	184V
Over Voltage Stage 1	+10% for 0.5 sec	253V	+ 10% for 1 sec	253V
Over Voltage Stage 2	N/A	N/A	+ 15% for 0.5 sec	264V
Under Frequency Stage 1	- 6% for 0.5 sec	47Hz	- 5% for 20 sec	47.5Hz
Under Frequency Stage 2	N/A	N/A	- 6% for 0.5 sec	47Hz
Over Frequency Stage 1	+ 1% for 0.5 sec	50.5Hz	+ 3% for 90 sec	51.5Hz
Over Frequency Stage 2	N/A	N/A	+ 4% for 0.5 sec	52Hz
Vector Surge **	Specified by DNO	8°	6° to 12°	8°
ROCOF **	Specified by DNO	0.5Hz/sec	0.125Hz/sec to 0.2Hz/sec	0.2Hz/sec

\*Example based on a 400V system

\*\*Normally only one of these functions is required, not both

AVK|SEG (UK) LTD  
Power Systems House  
Malvern Road  
Maidenhead  
Berkshire  
SL6 7RE



Tel : 01628 503900  
Fax : 01628 503999

Email : [power.systems@avk-seg.co.uk](mailto:power.systems@avk-seg.co.uk)  
Website : [www.avk-seg.co.uk](http://www.avk-seg.co.uk)

