

Technical Specification For 12KV 1 in 4 Out VCB

Sr	Specification Reference		Required	Supply
1	12KV indoor Switch Gear Panel (1in+4 Out) (For incomer: 1250A, 600-1200/5/ A & For Outgoing : 630A,200-400/5/5 A with PT& LA		1	
	(A)	12 kV VCB		
		Maker	Siemens	
		Country of Origin	Germany	
		Standard	IEC	
		Type	Simoprime	
	-	Norminal Voltage	11	
		Highest System Voltage	12	
		Rated Current (Incomer)	1250	
		Rated Current (Feeder)	630	
		Short Time withstand Current	25	
		Rated Power Frequency withstandard voltage	28	
		Rated Lightning Impulse withstandard voltage	75	
		Operation Sequence	O-0.3sec-Co-3min-Co	
		VCB Truck Withdrawable type	Draw Out	
		Closing & Tripping Voltage	110	
		Spring Charging Motor	230	
	(B)	12 kV Enclosure (Incomer, Feeder and PT & LA)		
		Maker	Siemens	
		Country of Origin (Except Local Assembly)	switch gear manufactured by KMN under licence of simens is used simoprime VCB	
		Standard	IEC	
		Type	indoor	
		Degree of Protection	IP 45	
		Thickness of Metal sheet	min; 2	
		Coating Colour	RAL 901 8(Wrinkle Grey)	
		Coating Thickness	50-86μ	
	(i)	VCB Truck must be Withdrawable type	Draw Out	

Sr	Specification Reference		Required	Supply
	(ii)	Disccrepancy Switch For 12KV VCB Operation	To include	
	(iii)	Indication lamp,Annunciators & metering lamp	To include	
	(iv)	ON/OFF indicator for CB (ON=Red ,Off=Green)	To include	
	(v)	Three phase Three wire kWhr/kVAR Meter-1 No for each (Total-5 Nos)		
		Maker	CEWE	
		Type	Panel Mounted Digital Type	
		Technical specifications for kWhr Meter are as follow;		
		(a)Conformed Standard -IEC 62053	Must be	
		(b)Rated Input Voltage-110 Vac(L-L)/63.5Vac	Must be	
		For wide vtg range,110 Vac(L-L)/63.5Vac(L-N) must be included in the input vtg range		
		(c)Rated Input crt-5 A	Must be	
		(d)Rated input Frequency=50 Hz	Must be	
		(e)V.T ratio=As stated	Must be	
		(f)C.T ratio=As stated	Must be	
		(g)Accuracy Class=0.5	Must be	
		(h)Operating Voltage-110 Vac (L-L)	Must be	
		(i)Day light reading liquid crystal display or LED display(\pm Varh)	Must be	
		(j)V.T ratio & C.T ratio must be programmed	Must be	
		(k) KWH meters are products for medium vtg system	Must be	
		(Remark- KWhr meter and KVarh meter are displayed with by seperated or combined meter)		
	(vi)	Three phase Multifunction Meter-1 No for each (Tota-5 Nas)		
		Maker	To State	
		Country of Origin	To State	
		Type	Panel Mounted Digital Type	
		Technical specifications for Multi-Meter are as follow;		
		(a)Conformed Standard -IEC 62053	Must be	
		(b)Rated input Voltage-110 Vac(L-L)/63.5Vac	Must be	
		For wide vtg range,110 Vac(L-L)/63.5Vac (L-N) must be included in the input vtg range		

Sr	Specification Reference	Required	Supply
	(c)Rated input crt-5 A	Must be	
	(d)Rated input Frequency=50 Hz	Must be	
	(e)V.T ratio=As stated	Must be	
	(f)C.T ratio=As stated	Must be	
	(g)Accuracy Class=0.5	Must be	
	(h)Operating Voltage-		
	- 110 Vac(L-L)/63.5Vac (L-N) fixed or must be included in the operatingvgtg range or	Must be	
	- Self powered or	Must be	
	- For wide range DC Operating Vtg,110 Vdc & 230 Vdc must be included	Must be	
	(i)Communication interfaces-Rs485 and Ethernet comply to IEC 61850	Must be	
	(j)Measurement value (In primary value)		
	(i)Voltage- V_{L-L} (L1-L2,L2-L3, L3-L1)(kV)		
	- V_{L-N} (L1-N, L2-N, L3-N) (kV)		
	(ii) Ampere- L_1, L_2, L_3 (A)		
	(iii) Frequency (Hz)		
	(iv) Three phase active power (W)		
	(v) Three phase reactive power (Var)		
	(vi) Three phase apparent power (VA)		
	(vii) Three phase power factor (pf)		
	(viii)Three phase active energy (\pm Wh)		
	(ix)Three phase reactive energy (\pm Varh)		
	(k) V.T ratio and C.T ratio must be programmed.		
	(l) Multifunction meters are products for medium voltage system		
	(m)Day light reading liquid crystal display or LED display (\pm Varh)		
	(C) Three phase Combined Directional O/C and E/F Relay- 1 No		
	(i) Maker	Siemens	
	Country of Origin	Germany	
	Type	7SR 12	
	(D) 12KV CT For Incomer & Feeder		
	Maker	To State	
	Country of Origin	To State	
	Standard	IEC	
	Norminal Voltage	11	
	Highest SystemVoltage	12	

Sr	Specification Reference		Required	Supply
		For incomer		
		CT Ratio	600-1200/5/5/5	
		Burden	50,50	
		Accuracy Class	0.5/5P10/5P 10	
		For Feeder		
		CT Ratio	200-400/5/5	
		Burden	50,50	
		Accuracy Class	0.5/5P 10	
	(E) 12KV PT and LA panel Enclosure		1	
		Maker	To State	
		Country of Origin (Not for local Assembly)	To State	
		Standard	IEC	
		Type	Indoor	
		Highest System Voltage	12	
	(i) 12 kV Potential Transformer			
		Maker	To State	
		Country of Origin	To State	
		Standard	IEC	
		Type	indoor	
		Voltage Ratio	11/rt3,0.11/rt3,0.11/rt3	
		Burden	50,50	
		Accuracy Class	0.5,5p	
	(ii) 11kV Lightning Arrester			
		Maker	To State	
		Country of Origin	To State	
		Standard	IEC	
		Type	Indoor	
		Norminal Voltage	11	
		Highest System Voltage	12	
		Maximum continious operating voltage	7~8	
		Normal discharge current	10	
		PT & LA and VCB's Panel maker must be the same as Incoming & Feeder Panel	Must be Same	
		Drawing (Circuit,Dimension,)must be state	To State	
		All Panels must be same as the existing panel which has been installed present	Must be Same	

မဏိရတနာကျောက်စိမ်းခန်းမတွင် 80kVA/KW Online UPS ခုံတပ်ဆင်ခြင်း

No	Required Detail Specifications
1	<p>80kVA/ 80kW Online UPS</p> <p>Brand: Socomec (France)</p> <p>Country of Origin : France, Manufactured in Italy</p> <p>Topology : Ultra High Efficiency 3-Level Technology with Clean IGBT Rectifier</p> <p>Rated input voltage : 400V 3Phase+Neutral</p> <p>Voltage tolerance :240~480V (- 40% / + 20%)</p> <p>Input frequency : 50/60Hz(±10%)</p> <p>Input Power Factor / THDI : > 0.99 / < 2.5%</p> <p>Output voltage: 3 Ph + N - 400V(can be configured 380/415V) (±1%)</p> <p>Output frequency : 50/60Hz (±0.02% on battery mode)</p> <p>Transfer time : 0 ms</p> <p>Efficiency : up to 96.5%</p> <p>Overload : 125% for 10 mins, 150% for 1 min</p> <p>Battery System : External Complete with Cabinet</p> <p>Battery Brand : Rocket</p> <p>Battery Capacity : 12V, 100Ah</p> <p>Battery Quantity : 44 Blocks</p> <p>Back-up time : 20 minutes @ 75% of rated load (60kW)</p> <p>Rated Ambient Temperature : ≤ 25° C</p> <p>Warranty : 1 Year with Two Times preventive Maintainance</p>

မဏိရတနာကျောက်စိမ်းခန်းမတွင် 400V ATS ခုံတပ်ဆင်ခြင်း

No	Required Detail Specifications
1	400 ATS Brand : Country of Origin : Europe Rated input voltage : 400V 3Phase+Neutral Rated Current : 2000A Input frequency: 50/60Hz ($\pm 10\%$) Transfer time : Adjustable Overload : 125% for 10 mins