

Selection Guide For Smart Meter

ACDC Power Solution For Smart Meter

No.	Solution	Series	Power	AC input voltage	Output voltage	Isolation voltage	Note
1	Chip	SCM1733	≤20W	85~305VAC	--	--	IC solution
2	Chip	SCM1738	≤8W	85~305VAC	--	--	IC solution
3	Transformer	TTLS05-15B12R3T	5W	85~264VAC	12VDC	4000VAC	
4	Transformer	TTLHE10-20B05D	10W	85~264VAC	5VDC, 12VDC	3000VAC	
5	Transformer	TTLHE20-20B12D	20W	85~264VAC	12VDC	4000VAC	
6	Transformer	TTLHE25-20B12D	25W	85~264VAC	12VDC	4000VAC	
7	Discrete solution	LS03/05-K3BxxSS	3W/5W	85~305VAC	12,15,18VDC	Non-isolated	
8	Discrete solution	LS03/05-13BxxR3	3W/5W	85~305VAC	3.3~24VDC	3000/3600VAC	
9	Discrete solution	LS05-26BxxR3	5W	90~528VAC	3.3~24VDC	4000VAC	Three-phase Meter
10	Discrete solution	LS05-26BxxSS	5W	90~528VAC	3.3~24VDC	4000VAC	Three-phase Meter
11	Discrete solution	LS10-13BxxR3(P)	10W	85~305VAC	3.3~24VDC	4000VAC	
12	Discrete solution	LS10-26BxxR3	10W	90~528VAC	3.3~24VDC	4000VAC	Three-phase Meter

DCDC Power Solution For Smart Meter

No.	Solution	Series	Power	Input voltage	Output voltage	Numbers of output	Isolation voltage	Note
1	Chip	SCM1201B	≤2W	3.3~24VDC	3.3~24VDC	1/2	--	IC solution
2	Chip	SCM1212B	≤2W	3.3~24VDC	3.3~24VDC	1/2	--	IC solution
3	Transformer	TTH0505-1T	1W	3.3~24VDC	3.3~24VDC	1	5000VAC	
4	Regulator	K78(L)xx-500R3	--	4.75~36VDC	3.3~15VDC	1	Non-isolated	
5	Module	B0505ST16-W5	0.5W	5VDC	5VDC	1	5000VAC	SOIC package
6	Module	F_S-1WR3	1W	3.3~24VDC	3.3~24VDC	1	3000VDC	
7	Module	H05_S-1WR3-RU	1W	5VDC	3.3, 5, 9VDC	1	5000VAC	
8	Module	G0512S-1WR3-RU	1W	5VDC	±12VDC	2	5000VAC	
9	Module	H_S-1WR3	1W	3.3~24VDC	3.3~24VDC	1	4200VAC/6000VDC	
10	Module	G_S-1WR3	1W	3.3~24VDC	±3.3~±24VDC	2	4200VAC/6000VDC	

RS485 Solution For Smart Meter

No.	Solution	RS485 with integrated power supply	I/O Terminal VCC1	Isolation voltage	Transmission rate	Note
1	Chip	SCM3406ASA	--	--	--	IC solution
2	Transformer	TTH0505-1T	--	--	--	
3	Module	TD(H)541S485H	4.75~5.0VDC	3(5)000VDC	1M	
4	Module	TD(H)541S485S	4.75~5.5VDC	3(5)000VDC	20M	
5	Module	TD541S485S-F	4.5~5.5VDC	3000VDC	20M	PTP ADM2682E/2687E
6	Module	TD(H)541S485S-F1	4.5~5.5VDC	3(5)000VDC	20M	
7	Module	TD(H)541S485S-FT	4.5~5.5VDC	3(5)000VDC	20M	PTP ADM2582E/2587E
8	Module	TDA51S485HC	2.37~5.5VDC	5000VAC	500K	Function PTP ADM2481

No.	Solution	RS485 with external power supply	I/O Terminal VCC1	Bus terminal VCC2	Isolation voltage	Transmission rate	Note
1	Module	TD041S485H/S	2.37~5.5VDC	4.5~5.0VDC	3750Vrms	1M/20M	PTP ADM2481
2	Module	TD041S485S-F1	2.37~5.5VDC	3.0~5.0VDC	3750Vrms	20m	PTP ADM2490E